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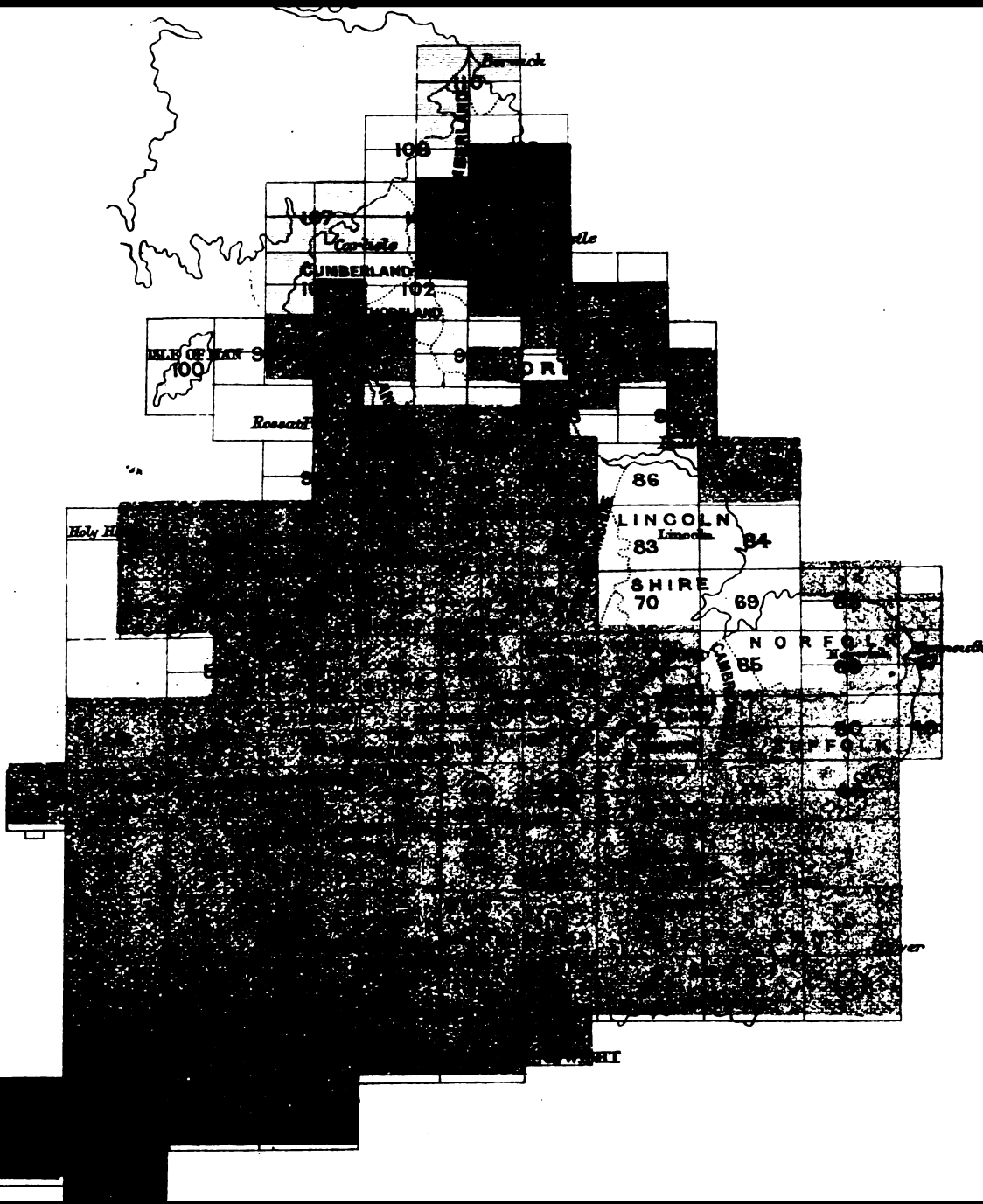

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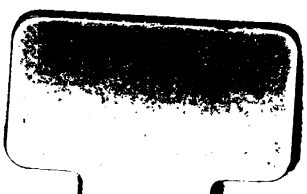

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CONTENTS.

	Page
Notice	5
Officers of the Geological Survey of the United Kingdom :—	
England and Wales	7
Ireland	8
Scotland	8
Description of Maps, Sections, Memoirs, &c.	
England and Wales :	
One Inch Scale :	
Solid Geology	9
Drift Geology	18
Completed Counties	22
Coalfields	23
Six-Inch Scale :	
Published Maps	24
Manuscript Coloured Copies	24
Index Map	30
Index of Colours	24
Horizontal Sections	31
Vertical Sections	46
Memoirs :	
General Memoirs	55
Records of the School of Mines	57
The Iron Ores of Great Britain	57
Memoirs illustrating Sheets of the Map	57
Figures and Descriptions illustrative of British Organic Remains :	
Decades	60
Monographs	60
Mineral Statistics	61
Catalogues	61
Colonial Geological Memoirs (West Indies)	62
Ireland :	
One-Inch Scale	63
Completed Counties	75
Coalfields	76
Six-Inch Scale	76
Horizontal Sections	77
Vertical Sections	79
Explanations	80
General Memoir	83
Scotland :	
One-Inch Scale	84
Coalfields	88
Six-Inch Scale	89
Horizontal Sections	93
Vertical Sections	95
Memoirs	95

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NOTICE.

The Publications of the Geological Survey include Maps, Sections, Memoirs illustrating the Geology of the United Kingdom, Descriptions of British Organic Remains, Descriptions and Analyses of Iron Ores, Mineral Statistics, &c.

Maps.

The results of the original field survey are laid down upon the Ordnance Maps on the scale of six-inches to one mile, in those districts where maps of that scale are available. In other parts, maps on the one-inch scale are used as a topographical basis.

Where the districts contain Coal-bearing strata, or other mineral-bearing rocks of commercial importance requiring greater detailed information, the original survey upon the six-inch scale has in most instances been engraved and published. M.S. coloured copies of six-inch maps not intended for publication, or maps of which the publication is deferred, are deposited in the Geological Survey Office. Copies of these maps can be supplied to the public on the following conditions:—

No complete copy of a map can be supplied until after the publication of the one-inch map which contains it.

The cost of making the copy will vary according to the amount of work on the map. A plain Ordnance map must be supplied, or this will be charged, in addition, at the published price.

In no case can the original M.S. copy be taken from the office for the purpose of being copied.

In all cases, the Geology mapped in the field upon the six-inch scale is reduced and published upon the one-inch maps of the Ordnance Survey, which then constitutes the general Geological Map of the United Kingdom; and on this scale the whole will be published as each individual sheet is completed.

Horizontal Sections.

These Sections, geologically coloured, are constructed on a scale of six inches to a mile, horizontally and vertically, and show in detail the geological relations of the rocks to each other, giving the true outline of the ground, and the actual inclination and thickness of the strata. Descriptions are engraved on each plate, thus rendering each Section a concise Report of the district it traverses; many Sections are also accompanied with brief explanations. Each sheet of Sections represents a length of about 30 miles.

Vertical Sections.

These Sections are arranged in the form of columns, and are constructed on a scale of one inch to 40 feet, or, in special instances, on even a larger scale They represent the vertical sequence of strata as observed in Coal-pits, Quarries, or other natural, or artificial exposures of the rock. In the sections illustrative of the Coalfields, the thickness and position of each bed of Coal, and the mineral structure and thickness of the strata with which they are associated, are shown in great detail. These Sections are issued in Sheets uniform in size with those of the Horizontal Sections, which they especially illustrate.

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Memoirs and Explanations.

In the course of the Field-Surveys much information is accumulated which cannot be shown on the Maps or Sections. To render this information available to the public, and to present with the Maps and Sections such a complete summary of the Geology of each district as it is within the power of the Survey to accomplish, descriptive letter-press is issued, in the form of Memoirs and Explanations, to accompany the One-inch Maps. In these the Geology is treated in detail, the most instructive natural sections are described and are illustrated by woodcuts, and lists of the Fossils found in the districts described are given.

As the preparation of these Memoirs usually follows that of the Maps and Sections, it is often necessary to wait until several sheets of the One-inch Map have been completed before the descriptive letter-press for the area can be finished.

Decades and Monographs.

These contain descriptions of a selection of Fossils illustrative of the genera and more remarkable species of some of the classes of animals the remains of which are found in the British rocks. The plates accompanying these descriptions are engraved in elaborate detail. Thirteen Decades and three Monographs are published. Decades 1, 3, 4, 5, illustrate many genera of the Echinodermata; 2, 7, 11, of Trilobites; and 6, 7, 10, 13, of Fossil Fish.

Monograph 1, on the Anatomy and Affinities of the genus Pterygotus; 2, on the structure of the Belemnitidæ; 3, on the Crocodilian Remains found in the Elgin Sandstone; 4, on Cretaceous Chimæroid Fish.

Description and Analyses of Iron Ores.

Four parts of these are published descriptive of the Iron Ores of the Northern and North-Midland counties of England, of the South Staffordshire Coalfield, of South Wales, and of the Coalfields of Shropshire and North Staffordshire.

Mineral Statistics.

These volumes were issued by the Mining Record Office from the year 1853–54 to 1881 inclusive; they show the annual produce of Tin, Copper, Lead, Silver, Iron, Coal, and other Minerals. An Appendix gives a list of all the Metalliferous Mines at work in the United Kingdom, with the names of Purser or Secretary, Manager or Chief Agent, &c., to each. The Mining Record Office having been transferred to the Home Office, the annual Reports will now be issued with the Reports of the Inspectors of Mines.

Colonial Surveys.

The Geological Survey of the West Indies having been carried out in connexion with the Geological Survey of the United Kingdom, memoirs descriptive of the Geology of Trinidad, Jamaica, and British Guiana have been published.

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INDEX
to the
GEOLOGICAL MAP OF ENGLAND.

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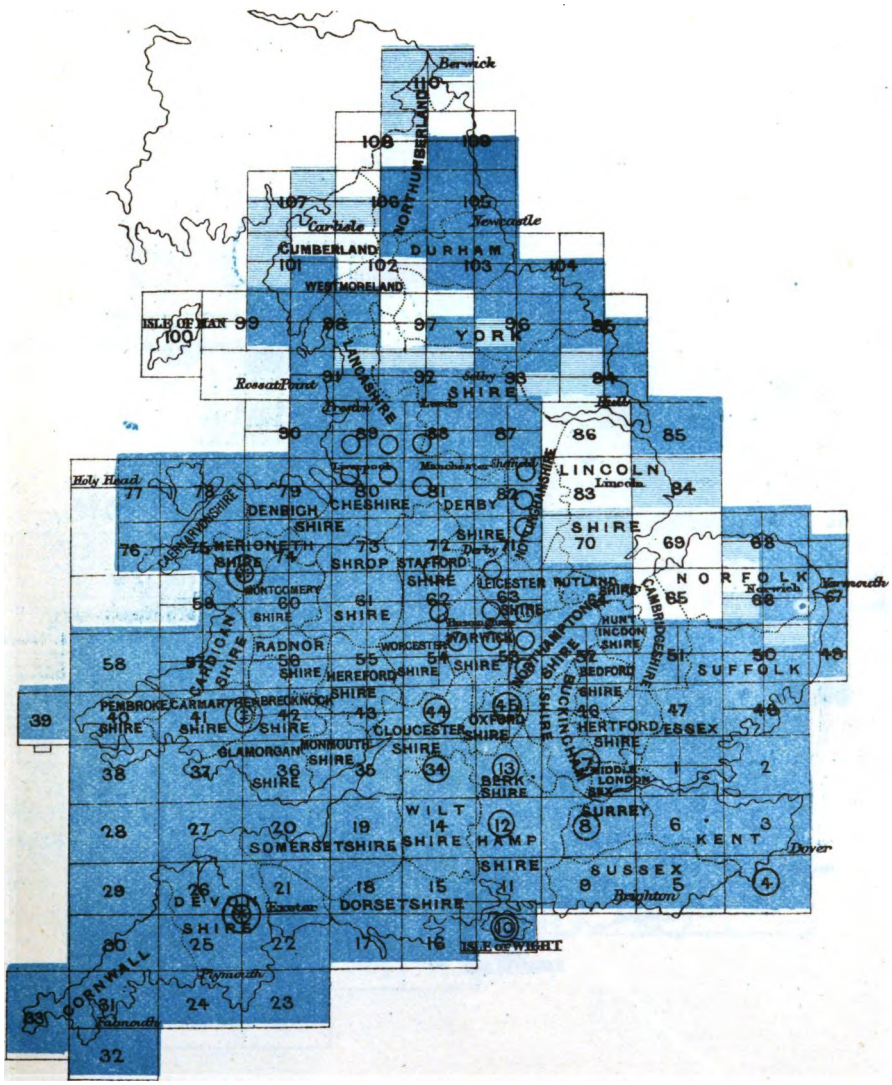

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INDEX
to the
GEOLOGICAL MAP OF ENGLAND.

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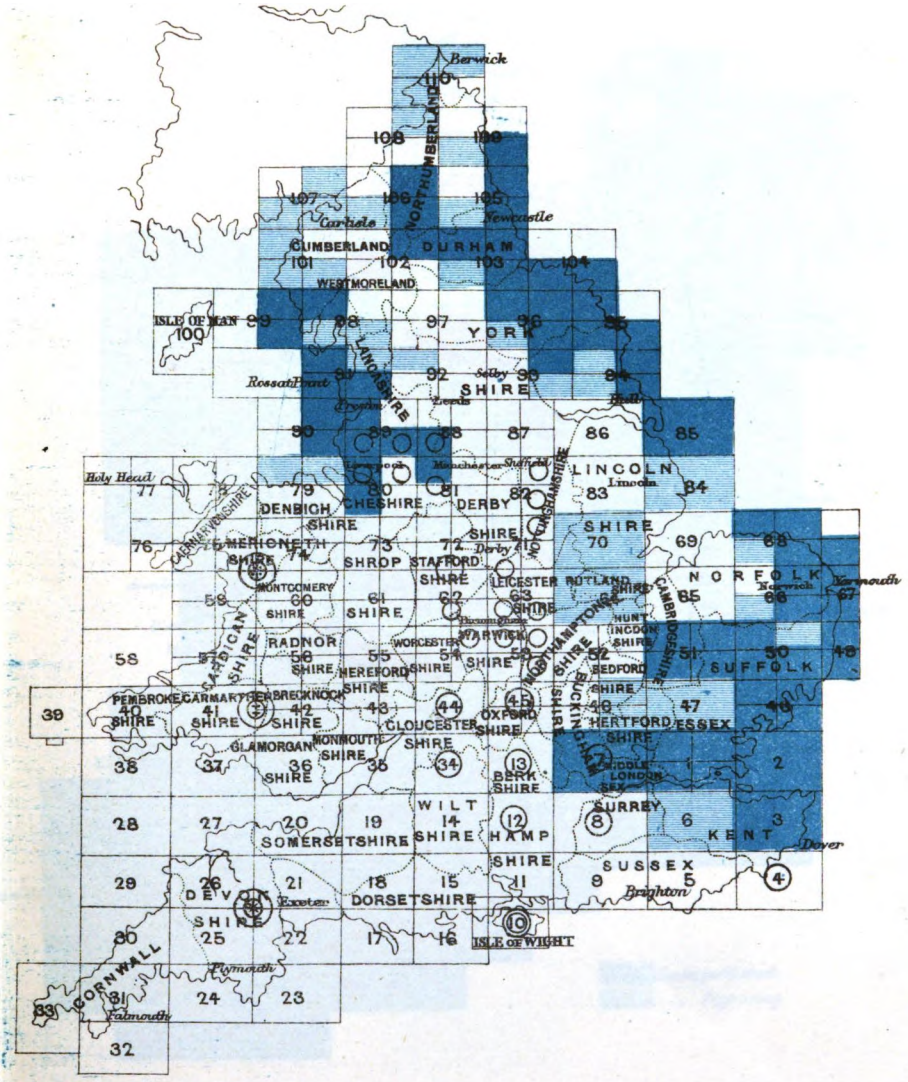

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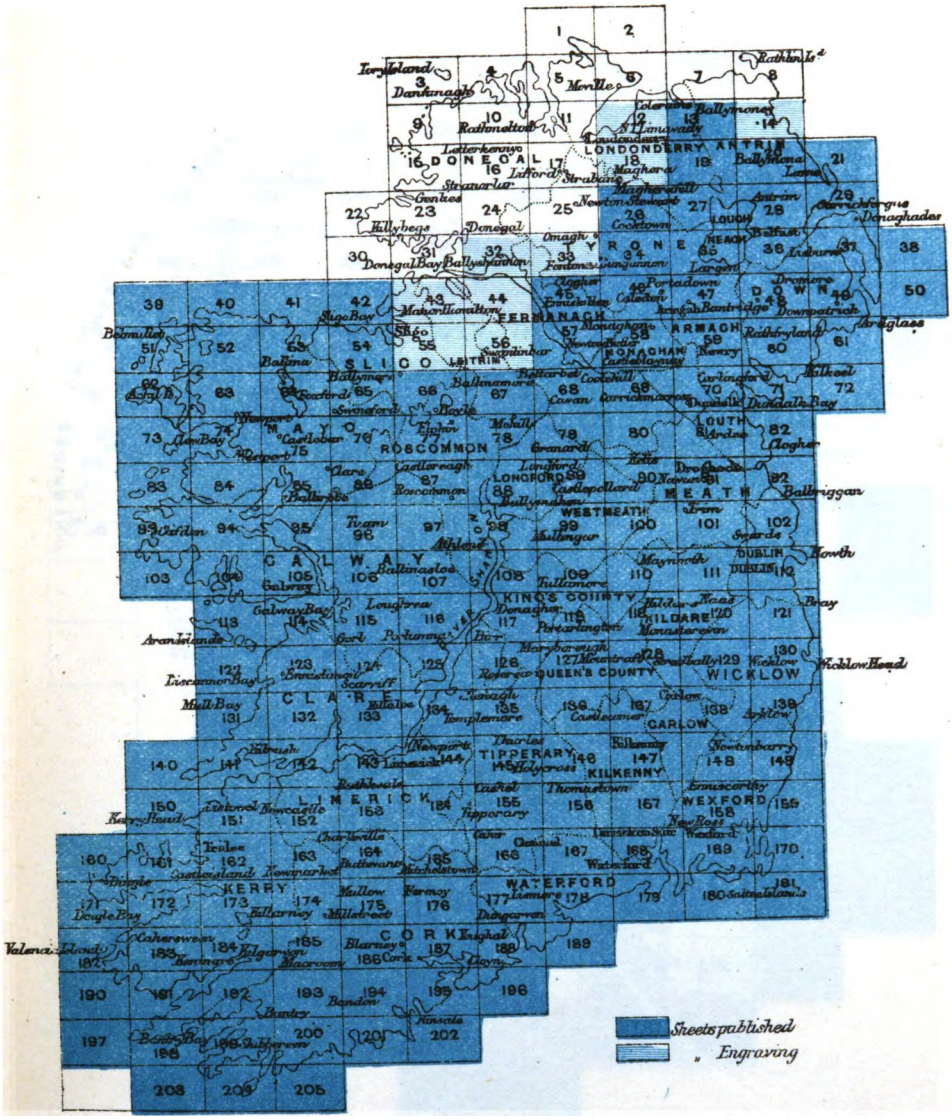
INDEX
to the
GEOLOGICAL MAP OF IRELAND
Published on the Scale of One Inch to a Mile.



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INDEX to the GEOLOGICAL MAP OF SCOTLAND

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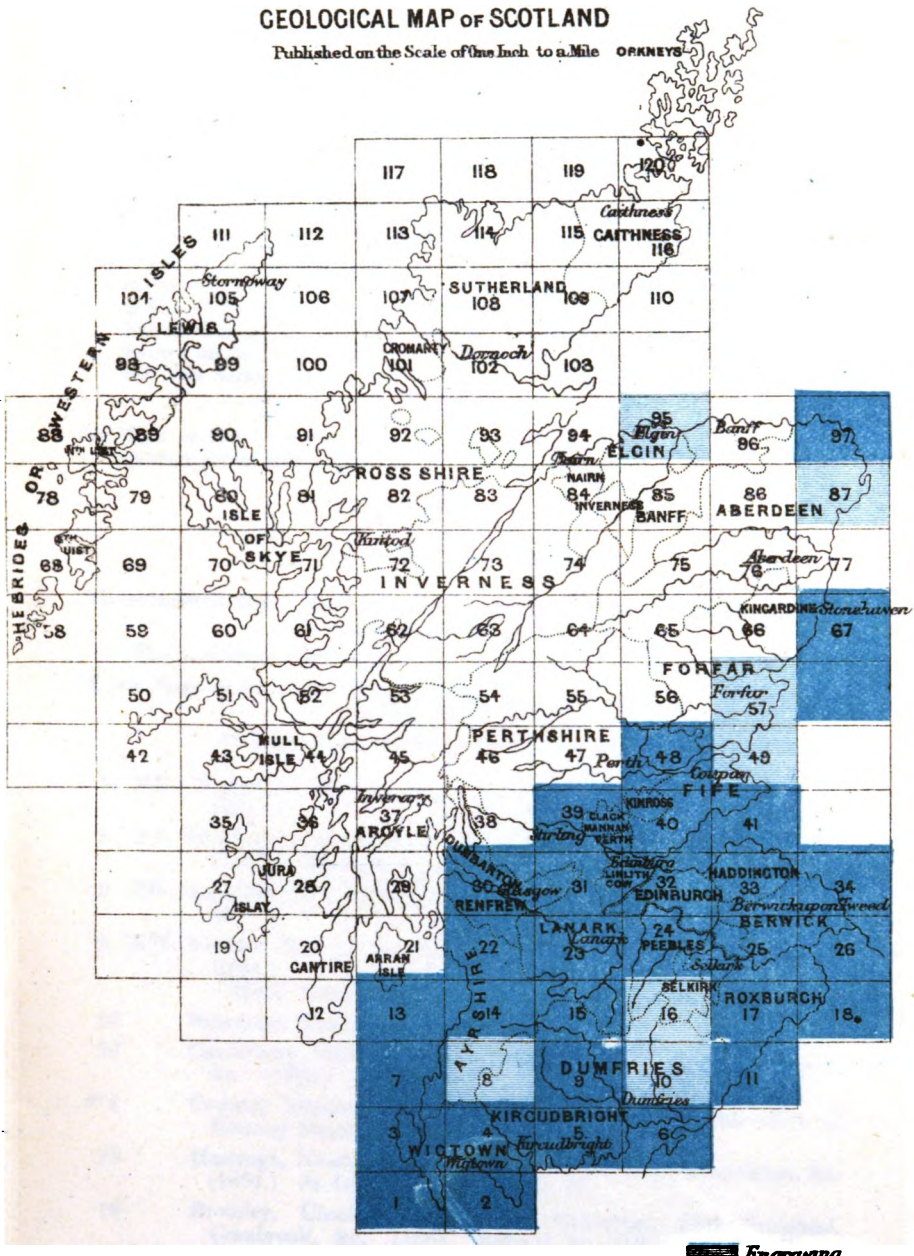

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In Sheets and Quarter Sheets on the scale of one inch to a mile. The price of the Quarter Sheets is now uniformly 3*s.*, except where otherwise stated.

The New Series of One-Inch Ordnance Maps of England and Wales commences its numbering in the north of England. Those already published of the six Northern Counties coincide in area with those of the Old Series, but are distinguished by two numbers: the first is that by which it is known on the Geological Survey; the second (within brackets) is that of the New Series of the Ordnance Survey. Thus:—

95 N.W. [44.]

All Maps of the New Series, as published, will be of uniform size with the quarter sheets recently issued of the north of England.

A.—SOLID GEOLOGY.

Those marked thus * have separate Descriptive Memoirs. Those marked † are illustrated by general Memoirs.

The numbers within square brackets refer to the new enumeration.

(A few Maps in the East of England, included in this List, are published only in the Drift Edition.)

*† Large Sheet "London and its Environs," 22*s.* (1873.)

†1 NE. Chelmsford, Maldon, Ingatestone, Billericay, &c. (1868.) Horiz. Sect., 84.

† NW. Hoddesdon, Waltham Abbey, Brentwood, Chipping Ongar, &c. (1868.) Horiz. Sect., 120.

† SE. Langdon Hill, Gravesend, Rayleigh, &c. (1868.) Horiz. Sect., 84.

† SW. Eastern Part of London, Woolwich, Dartford, Romford, &c. (1868.)
Horiz. Sects., 120.

†2 Sheerness, Shoeburyness, &c. (1868.) 4*s.*

†3 Canterbury, Sittingbourne, Ashford, Margate, Ramsgate, Dover, &c. (1868.) 8*s.* 6*d.*

†*4 Country between Folkestone and Rye, including the whole of Romney Marsh. (1863.) 5*s.*

†5 Hastings, Newhaven, Hailsham, Lewes, Seaford, Winchelsea, &c. (1864.) 8*s.* 6*d.* Horiz. Sects., 77, 78.

†6 Bromley, Chatham, Maidstone, Tunbridge, East Grinstead, Cranbrook, &c. (1864. Revised to 1865.) 8*s.* 6*d.* Horiz. Sects., 77, 78, 84, 120.

*†7 Western part of London, St. Alban's, Wendover, Windsor, Staines, Uxbridge, High Wycombe, &c. (1861. Revised to 1872.) 8*s.* 6*d.* Horiz. Sects., 74, 79.

†8 Wokingham, Kingston, Croydon, Farnham, Guildford, Dorking, Reigate, &c. (1862. Revised to 1868.) 8*s.* 6*d.* Horiz. Sects., 73, 74, 75, 76, 79.

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†9 Brighton, Chichester, Midhurst, Horsham, Haslemere, &c. (1864.) 8*s.* 6*d.* Horiz. Sects., 73, 75, 76.

*10 Isle of Wight, part of Portsmouth Harbour. 4*s.* (1856.) Horiz. Sects., 47; Vert. Sects., 25.

†11 Winchester, Southampton, Portsmouth, Petersfield, Romsey, Lymington. (1858.) 8*s.* 6*d.* Horiz. Sects., 47, 80.

*†12 Newbury, Hungerford, Andover, Basingstoke, Odiham, Alton, (1860.) 8*s.* 6*d.* Illustrated by Horiz. Sects., 80, 81.

*†13 Oxford, Reading, Wantage, Abingdon, Lambourn, Thame, Henley-upon-Thames, &c. (1860.) 8*s.* 6*d.* Horiz. Sects., 71, 72, 81.

†14 Marlborough, Amesbury, Westbury, Devizes, Warminster. (1857. Revised to 1859.) 8*s.* 6*d.*

15 Salisbury, Blandford, Ringwood, Shaftesbury, Cranborne, Wimborne Minster, &c. (1856.) 8*s.* 6*d.*

16 Poole, Coast from Hurst Castle to Lulworth, including the Isle of Purbeck. (1856.) 8*s.* 6*d.* Horiz. Sects., 56; Vert. Sects., 22.

17 Bridport, Dorchester, Weymouth, the Isle of Portland. (1850. Revised to 1855.) 8*s.* 6*d.* Horiz. Sects., 19, 20, 21, 22, 56; Vert. Sects., 22.

18 Wincanton, Sherborne, Beaminster, Langport, Yeovil, Ilchester, Crewkerne, Cerne Abbas, &c. (1850. Revised to 1875.) 8*s.* 6*d.* Horiz. Sects., 19, 20, 21, 22; Vert. Sects., 47.

†19 Bath, Frome, Axbridge, Wells, Glastonbury, Mere, &c. Somersetshire Coalfield, and southern part of Bristol Coalfield. (1845. Revised to 1873.) 8*s.* 6*d.* Horiz. Sects., 14, 15, 16, 17, 20, 21, 22, 103, 104, 105, 106, 111, 112; Vert. Sects., 11, 12, 46, 47, 48, 49, 50, 51, 52.

†20 Weston-super-Mare, Bridgewater, and the Coast to Porlock, Penarth, Lavernock. 8*s.* 6*d.* Horiz. Sect., 11; Vert. Sects., 46, 47.

†21 Ilminster, Taunton, Honiton, Tiverton, Dulverton, Wiveliscombe, Chard, Bampton, Crediton. 8*s.* 6*d.* Horiz. Sect., 19.

†22 Coast from Lyme Regis to Torbay, Exeter, Newton Abbot, &c. 8*s.* 6*d.*

†23 Coast from Berry Head to Start Point, Dartmouth, Brixham, &c. 4*s.*

†24 Coast from Bolt Head to East Looe, Plymouth, &c. 4*s.*

†25 Launceston, Tavistock, Callington, the Granite of Dartmoor, and the lodes of the neighbouring Mining District. 8*s.* 6*d.*

†26 Bideford Bay, South Molton, Holsworthy, and Hatherleigh. 8*s.* 6*d.*

†27 Coast from the Foreland to Barnstaple Bay, Ilfracombe, &c. 4*s.*

28 Lundy Island. 4*s.*

†29 Coast from Hartland Point to Cambeak, Bude Bay. 4*s.*

†30 Coast from N. of Forrabury to Holywell Bay, Camelford, St. Columb, the Mining District of Bodmin, Lostwithiel, &c., showing Lodes, &c. 8*s.* 6*d.*

†31 S. Coast from Polperro to Keverne; N. Coast, Cligga Head to Portreath, Truro, Falmouth, the Mining Districts of St. Austel, Fowey, Camborne, Redruth, &c. showing Lodes, &c. 8*s.* 6*d.*

†32 Lizard Head (the Serpentine District). 4*s.*

†33 The Land's End, Mounts Bay, St. Ives Bay, Penzance, the Mineral Districts of St. Just, Marazion, &c. 8*s.* 6*d.*

*†34 Stroud, Fairford, Swindon, Chippenham, Marlborough Downs, Cirencester, &c. (1857. Revised to 1859.) 8*s.* 6*d.* Horiz. Sects., 59 and 72 (Section 2).

NOTE.—Sheets 20 to 33 are not dated; all were published before 1845, the First Edition of Sheets, 36 to 40, and 42.

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†35 The Bristol Coalfield, showing outcrops of the various Coal-seams, Faults, &c.—Chipping Sodbury, Dursley, Chepstow, southern part of the Coalfield of the Forest of Dean. (1845. Revised to 1872.) 8*s.* 6*d.* Horiz. Sects., 12, 14, 15, 17, 106, 107, 111, 112; Vert. Sects., 7, 11, 12, 46, 49, 51.

†36 The South-Eastern part of the Glamorgan Coalfield, showing outcrops of the Coal Beds, Faults, &c.—Pontypool, Merthyr Tydfil, Bridgend, Llandaff, Cardiff, Newport, Aberdare. (Revised, in part, to 1873.) 8*s.* 6*d.* Horiz. Sects., 10, 11, 12; Vert. Sects., 4, 7, 8, 9, 10, 36, 47, 53, 57.

†37 The South-Western part of the Glamorgan Coalfield, showing outcrops of the Coal Beds, Faults, &c.—Neath, Kidwelly, Llanelly, Swansea, &c. (1845. Revised, in part, to 1872.) 8*s.* 6*d.* Horiz. Sects., 7, 8, 9; Vert. Sects., 1, 2, 3, 4, 5, 6, 53, 57.

†38 South Pembroke, SE. part of the Coalfield to Sillman Point, Milford Haven, Pembroke, Tenby. (1845.) 4*s.* Horiz. Sects., 1, 2; Vert. Sects., 5, 12, 13.

·39 Smalls Light, Bishop and his Clerks. (1845.) 4*s.*

†40 North Pembroke and West Caermarthen continues the Pembroke Coalfield to St. Bride's Bay.—St. David's Head, Newport, &c. (1845. Revised to 1857.) 8*s.* 6*d.* Horiz. Sects., 1, 2; Vert. Sect., 13.

†41 North-Western part of the S. Wales Coalfield, Coal Crops, Faults, &c. From near Kidwelly to Caermarthen, Llandeilo, Llandovery, &c. (1845. Revised to 1857.) 8*s.* 6*d.* Horiz. Sects., 2, 3, 4, 7, 8, 9; Vert. Sects., 3, 4, 5, 13, 14.

†42 NE. Part of East Brecknock and West Hereford, Hay, Talgarth, &c. (1845.) Horiz. Sect., 5.

42 NW. West Brecknock and part of East Caermarthen, Brecknock, &c. (1845. Revised to 1857.) Horiz. Sect., 4.

†42 SE. Completes the NE. of the Glamorgan and Monmouth Coalfield; Abergavenny, Crickhowell, &c. (1845.) Vert. Sects., 8, 9, 10, 12.

†42 SW. Northern part of the Welsh Coalfield, SW. of Brecknock, part of North Glamorgan, and East Caermarthen, Dowlais, &c. (1845.) Horiz. Sect. 11; Vert. Sects, 8, 9, 10.

†43 NW. The Old Red Sandstone, and part of the Silurian Strata of Woolhope, Hereford, &c. (1845.) Horiz. Sect., 13; Vert. Sect., 15.

†43 NE. Completes the Silurian district of Woolhope, with the Malvern Country as far North as the Wych, Ledbury, &c. (1845.) Horiz. Sect., 13; Vert. Sect., 15.

†43 SW. The Western part of Dean Forest Coalfield, with the Carboniferous Limestone and Old Red Sandstone around Monmouth, Coleford, Ross, &c. (1845.) Horiz. Sect., 12; Vert. Sect., 7.

†43 SE. Gloucester, the Eastern part of Dean Forest Coalfield, the Carboniferous Limestone and Old Red Sandstone, the Silurian Rocks (Limestone, &c.) of Huntley and May Hill, and the New Red Sandstone and Lias on the banks of the Severn. (1845.) Horiz. Sects., 12, 13, 15; Vert. Sects., 7, 12, 15.

*44 Evesham, Worcester, Cheltenham, Burford, &c. (1856.) 8*s.* 6*d.* Horiz. Sects., 59, 72. Vert. Sect., 47.

†45 NW. Banbury, Deddington, Chipping Norton, &c. (1859.) Horiz. Sects., 71, 72, 82.

*45 SW. Woodstock, Witney, &c. (1859.) Horiz. Sects., 71, 81, 82.

†45 NE. Buckingham, Brackley, &c. (1863.)

†45 SE. Bicester, Brill, &c. (1863.) Horiz. Sect., 71.

†46 NE. Hitchin, Biggleswade. (1869.) Horiz. Sect., 121.

†46 SE. Hatfield, Luton, Stevenage, &c. (1867.) Horiz. Sects., 79, 121, 125.

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46 NW. Newport Pagnel, Winslow, Stony Stratford, Woburn, &c. (1864.) Horiz. Sects., 79, 125.

†46 SW. Leighton Buzzard, Aylesbury, Tring, Dunstable, &c. (1865.) Horiz. Sects., 74, 125.

*47 Hertford, Dunmow, Bishop Stortford, Braintree. (1881.) Horiz. Sects., 120, 121, 126.

*48 SE. Coast line S. of Harwich to near Great Clacton, Walton-on-the-Naze. (1876.)

48 NE. Coast line from Harwich to Hollesley Bay, east of Ipswich. (*Drift Edition only.*) (1882.)

48 NW. Ipswich, Manningtree, Hadleigh. (*Drift Edition only.*) (1882.)

*48 SW. Colchester, and the Colne Estuary. (1883.)

49 SW. Coast line of Suffolk, north and south of Aldbrough. (*Drift Edition only.*) (1883.) 1*s.* 6*d.*

49 NW. Coast line of Suffolk, northwards from Dunwich to Kessingland, Southwold, &c. (*Drift Edition only.*) (1883.) 1*s.* 6*d.*

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50 SE. Saxmundham, Orford, Woodbridge, Debenham. (*Drift Edition only.*) (1883.)

50 NW. NE. of Bury St. Edmunds, E. of Thetford, Diss, &c. (*Drift Edition only.*) (1882.)

*†50 SW. Stowmarket, Needham Market. (*Drift Edition only.*) (1881.)

*51 SW. Country around Cambridge. (1881.) Horiz. Sect., 126.

51 SE. Newmarket, Bury St. Edmunds. (1882.)

51 NW. Ely, St. Ives, and the southern part of the Fens. (1882.)

51 NE. Mildenhall, Thetford, Fordham. (1883.)

52 NE. Huntingdon, Kimbolton, &c. (1864.) Horiz. Sects., 121, 122.

52 SE. St. Neot's, Bedford, Potton, &c. (1864.) Horiz. Secs., 121.

52 NW. Kettering, Wellingborough, Thrapston, &c. (1864. Revised to 1870. Horiz. Sects., 122, 125.

52 SW. Northampton, Olney, Harrold, &c. (1863.) Horiz. Sects., 72, 125.

†53 NW. Coventry, Rugby, Leamington, &c. (1855.) Horiz. Sect., 82.

53 SW. Southam, Kington, &c. (1855.) Horiz. Sects., 82, 83.

*53 NE. Clipston, Crick, Braunston, &c. (1859. Revised to 1870.)

*53 SE. Towcester, Daventry, Weedon, &c. (1859.) Horiz. Sect.

54 NE. Henley-in-Arden, Solihull, &c. (1855.) Horiz. Sects., 50, 51.

54 SE. Stratford-on-Avon, Alcester, &c. (1854.)

54 NW. Droitwich, Kidderminster, Bromsgrove, &c. (1852. Revised to 1855.) Horiz. Sects., 23, 24, 25, 50.

54 SW. Worcester, Pershore, &c. (1854.)

†55 NE. Cleobury Mortimer, Bewdley, Stourport, the Coal Measures of the Forest of Wyre, Titterstone Clee Hill, &c. (1853. Revised to 1855.) Horiz. Sects., 33, 50.

†55 NW. Part of Clee Hill Coal Measures, Ludlow, &c. (1850. Revised to 1855.) Horiz Sects., 30, 33, 34, 36.

†55 SE. Bromyard, &c. (1853. Revised to 1855.) Horiz. Sect., 13.

†55 SW. Leominster, Weobley, &c. (1850.) Horiz. Sect., 34.

†56 NE. Clun, Knighton, Presteign, &c. (1850.) Horiz. Sects., 27, 30, 58.

†56 NW. Rhayader, &c. (1850.) Horiz. Sects., 4, 5, 6, 27.

†56 SE. New Radnor, Pembridge, &c. (1850.) Horiz. Sects. 5, 6, 27, 58.

†56 SW. Builth, &c. (1850.) Horiz. Sects., 5, 6.

†57 NE. Aberystwith, &c. (1848.) Horiz. Sects., 4, 5, 6.

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†57 NW. Small part of the Cardiganshire Coast. (1848.) 1*s.* 6*d.*

†57 SE. Lampeter, Tregaron. (1848.) Horiz. Sects., 4, 5, 6.

†57 SW. Coast from Aberavon to Aberforth. (1848.)

†58 Cardigan and part of the Coast. Horiz. Sect., 4. 4*s.* (1850. Revised to 1855.)

†59 NE. Barmouth, Dolgelly, Cader Idris, &c.; Mineral Lodes, &c. Horiz. Sect., 26.

†59 SE. Machynlleth, Aberdovey, Plinlimmon, &c., to near Aberystwith; numerous Mineral Lodes. (1848.)

†60 NE. Part of the Shropshire Coalfield, Welshpool, Oswestry, &c. (1850. Revised to 1855.) Horiz. Sects., 32, 33, 34, 35, 36, 38, 53.

†60 NW. Dinas-Mowddwy, Llanfair, &c. Lead Lodes, &c. (1851. Revised to 1855.) Horiz. Sects., 26, 29, 32.

†60 SE. Montgomery, Bishop's Castle, Newtown, &c.; Lead Lodes, &c. (1850.) Horiz. Sects., 30, 33, 34.

†60 SW. Llandiloes, &c.; Lead Lodes. (1850.) Horiz. Sects., 26, 27, 29, 30.

†61 NE. Wellington, Shifnall, Newport, &c.; Coal-measures of Coalbrook Dale, &c. (1858.) Horiz. Sects., 45, 54, 58; Vert. Sect., 23.

†61 SE. Much Wenlock, Bridgenorth, &c.; part of the Coal Measures of the Forest of Wyre. (1852. Revised to 1855.) Horiz. Sect., 54.

†61 NW. Shrewsbury, &c.; part of the Shropshire Coalfield. (1855. Revised to 1868.) Horiz. Sect., 36.

†61 SW. Church Stretton, The Longmynd; Coal Measures of Brown Clee Hills and Le Botwood. (1850. Revised to 1855.) Horiz. Sects., 33, 34, 36.

†62 NE. Litchfield, Tamworth, &c.; part of the Northern end of the Warwickshire Coal Measures. (1856. Revised to 1868.) Horiz. Sects., 45, 48, 49, 52, 57, 83; Vert. Sect., 21.

†62 NW. Cannock Chase, &c.; the Northern half of the South-Staffordshire Coalfield, &c. (1852. Revised to 1859.) Horiz. Sects., 23, 45, 54, 58; Vert. Sects., 16, 26.

†62 SE. Birmingham, Sutton Coldfield, Coleshill, &c.; part of the northern end of the Warwickshire Coalfield. (1855.) Horiz. Sects., 49, 50, 51, 83.

†62 SW. Wolverhampton, Walsall, Dudley, &c.; southern half of the South Staffordshire Coalfield. (1852. Revised to 1865.) Horiz. Sects., 23, 24, 25, 53, 54; Vert, Sects., 16, 17, 18, 26.

†63 NW. Ashby-de-la-Zouch, Market Bosworth, &c.; southern part of the Leicestershire Coalfield. (1855.) Horiz. Sects., 46, 48, 49, 52; Vert. Sects., 19, 20, 21.

*63 SE. Lutterworth, Market Harborough, &c. (1859. Revised to 1873.)

63 SW. Atherstone, Nuneaton, &c.; part of the Warwickshire Coalfield. (1855.) Horiz. Sects., 49, 50, 51, 83; Vert. Sect., 21.

63 NE. Mount Sorrel, Leicester, &c. (1856. Revised to 1873.) Illustrated by Horiz. Sects., 46, 48, 124.

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*71 NE. Nottingham, Southwell, &c. (1858. Revised to 1879.) Horiz. Sects., 60, 61.

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†72 NE. Ashbourn, &c. (1852. Revised to 1868.) Horiz. Sects., 41, 42, 57.

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†74 SW. Bala, Hirnant, &c. (1850. Revised to 1855.) Horiz. Sects., 29, 32, 35, 37, 38, 39.

†74 SE. Oswestry, &c.; part of the Shropshire Coalfield. (1850. Revised to 1855.) Horiz. Sects., 35, 38, 58; Vert. Sect., 24.

†75 NW. Coast line from near Llandwrog, southwards, to Aber-geirch, Nevin, Llanllyfin, Dolbenmaen, &c. (1850.)

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†75 SW. North coast of Cardigan Bay. Pwllheli, Criccieth, &c. (1851.)

†75 SE. North-east coast of Cardigan Bay, Harlech, Portmadoc, &c. Mineral Lodes. (1851. Revised to 1855.) Horiz. Sects., 26, 28, 29, 37, 39.

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†78 SW. S. of Holyhead Island and of Anglesey. Coal Measures, &c., Caernarvon. (1852.) Horiz. Sects., 28, 40.

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*88 NE. Huddersfield, Dewsbury, Halifax. (1874.) Horiz. Sects., 93, 94, 95, 96, 101; Vert. Sects., 35, 40, 42, 43, 44. Corresponding Six-inch Sheets, 64, 65, 72, 73, 80, 88, 89, 91, Lancashire.

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*89 SW. Wigan, Ormskirk, &c.; part of the Lancashire Coalfield, including 84, 85, 92, 93, 100, 101, Six-inch. Lancashire. (1860.) Horiz. Sects., 63, 67, 86; Vert. Sect., 276.

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64	Melton Mowbray, Oakham, Stamford, Peterborough.
65	(In preparation.) Wisbech, Kings Lynn, March, Downham Market, Swaffham. 8*s.* 6*d.*
66 NW	(In preparation.) East Dereham, Litcham, North Elmham, Thuxton, Reepham.
66 SW	(In preparation.) Wymondham, Hingham, Watton, Attleborough, East Harling.
†66 SE	Beccles, Bungay, Long Stratton, Loddon. (1881.)
†66 NE	Norwich, Potter Heigham, Felthorpe. (1882.)
67 N	Coast from Great Yarmouth northward to Horsey. (1881.)
67 S	Lowestoft, and the Coast southward from Yarmouth to near Gisleham. (1882.)
68 E	Coast line from Sherringham to Eccles; Cromer, Mundesley, Aylsham. (1883.)
68 SW	(In preparation.) Holt, Fakenham, New Walsingham, Foulsham.
68 NW	Norfolk coast line from Weybourn to W. of Wells. (1883.) 1*s.* 6*d.*
69	(In preparation.) The Wash; Boston, Hunstanton, Docking.
70	(In preparation.) Newark, Grantham, Corby, Spalding, Tattershall.

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79 NE (In preparation.) Liverpool, part of the Flintshire Coalfield.
79 NW (In preparation.) Mouth of the Clwyd, Rhyl, and Dyserth.
80 NW Prescot, St. Helens, Warrington. (1881.)
80 SW Chester, Tarporley, Frodsham. (1882.)
81 NW Stockport, Bollington. (1874.)
83 (In preparation.) Lincoln, Market Rasen, Horncastle, Gainsborough. 8*s.* 6*d.*
84 (In preparation.) Coast line from Saltfleet to south of Skegness; Louth, Spilsby. 4*s.*
85 Spurnhead, and the Mouth of the Humber, Great Grimsby, Patrington. (1883.) 4*s.*
86 (In preparation.) Hull, the Estuary of the Humber, Goole, Caistor. 8*s.* 6*d.*
88 SW Manchester, Oldham, &c. (1874.)
89 SW Wigan, Ormskirk.
89 SE Bolton Le Moors, Salford, Bury, &c. (1874.)
89 NW Preston, &c., Kirkham, and Chorley.
90 NE Mouth of the Ribble, Lytham, Southport. (1874.) 1*s.* 6*d.*
90 SE North Coast of Liverpool Bay, Formby, Waterloo. (1873.) 1*s.* 6*d.*
91 NW [58]. Furness Abbey, Piel Harbour, Barrow, Walney Island. (1881.) 1*s.* 6*d.*
91 SW [66]. Blackpool, Fleetwood. (1869.) 1*s.* 6*d.*
91 NE [59]. (In preparation.) Lancaster, Carnforth, and part of Morecambe Bay.
91 SE [67]. (In preparation.) Garstang, Ribchester, Chipping.
92 NW [60]. (In preparation.) Settle, Malham, Giggleswick.
92 NE [61]. (In preparation.) Grassington, Pately Bridge, Burnsall.
93 SE [71]. (In preparation.) York, Selby, Pocklington.
93 NE [63]. Country around York. (1882.)
93 NW [62]. (In preparation.) Knaresborough, Boroughbridge.
94 NE [65]. Coast line S. of Flamborough Head to near Alnwick. (1882.) 1*s.* 6*d.*
94 SW [72]. Beverley, Goodmanham.
94 SE [73]. Coast line from Hornsea to Tunstall; Rise, &c. (1883.) 1*s.* 6*d.*
94 NW [64]. (In preparation.) Driffield.
95 NW [44]. Scalby, Hackness, Sleights. (1881.) Vert. Sect. 67.
95 SE [55]. Coast line from Flamborough Head northward to Filey Bay. (1881.) 1*s.* 6*d.*
95 SW [54]. Coast line from Scarborough to Filey Bay; E. part of the Vale of Pickering. (1881.)
96 SE [53]. Vale of Pickering, Kirkby Moorside, New Malton. (1882.)
96 NE [43]. Egton, Rosedale, Helmsley Moor, &c. (1883.)
96 NW [42]. Northallerton, Croft, &c.
96 SW [52]. (Engraving.) Ripon, Thirsk.
97 NW [40]. (In preparation.) Kirkby Stephen, Muker.
97 SW [50]. (In preparation.) Dent, Ingleboro.
97 SE [51]. (In preparation.) West Burton, Bedale.
97 NE [41]. (In preparation.) Reeth, lower part of Swaledale.

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98 NE [39]. (In preparation.) Kendal, Sedbergh, Tebay.
98 NE [49]. (In preparation.) Kirkby, Lonsdale, Barbon, &c.
98 SW [48]. (In preparation.) Ulverston, Broughton-in-Furness.
98 NW [38]. Ambleside, Hawkshead, Rydal, Windermere.
99 NE [37]. Drigg, Gosforth, Ravenglass. 1*s.* 6*d.*
99 SE [47]. Bootle. 1*s.* 6*d.*
101 NW [22]. (In preparation.) Maryport and the adjoining Coast line.
101 NE [23]. (In preparation.) Wigton, Caldbeck, Cockermouth.
101 SE [29]. (In preparation.) Keswick, Derwentwater.
101 SW [28]. (In preparation.) Whitehaven, Workington.
102 NE [25]. Weardale.
102 NW [24]. (In preparation.) Penrith, Melmerby.
102 SW [30]. (In preparation.)
102 SE [31]. (In preparation.) Appleby, Warcop.
102 NE [25]. Weardale, &c. (1883.)
103 NW [26]. Weardale, Bishop Auckland. (1881.)
103 SE [33]. Middlesborough, Stockton, Darlington, Tees Mouth. (1882.)
103 NE [27]. Coast line from near Seaham Harbour to the Mouth of the Tees. (1881.)
103 SW [32]. (In preparation.) Barnard Castle, Bowes.
104 SE [35]. Whitby and adjoining coast line. (1881.) 1*s.* 6*d.*
104 SW [34]. Redcar, Guisborough; coast line from Tees Bay to Runswick Bay. (1883.)
105 NE [15]. Coast line from Newbiggin to Tynemouth. (1881.)
105 SE [21]. Coast line from South Shields to Seaham Harbour. (1882.)
106 NE [13]. Bellingham, Chollerton. (1883.)
106 SE [19]. Hexham, Allendale, Haltwhistle. (1883.)
106 NW [12]. (In preparation.) Bewcastle, and part of the Border.
106 SW [18]. (In preparation.) Brampton, Wetheral, Castle Carrock.
107 NE [11]. (In preparation.) Longtown, and part of the Border.
107 SE [17]. (In preparation.) Carlisle, Bowness.
107 SW [16]. Part of the Solway.
108 NE [5]. (In preparation.) Part of the Cheviots (English side).
108 SE [8]. (In preparation.) Otterburn, Woodburn.
108 SW [7]. (In preparation.) Kielder, Falstone.
109 NW [6]. (In preparation.) Alnwick, Dunstanborough Castle.
109 SE [10]. Coast line from near Coquet Island to Newbiggin. (1882.) 1*s.* 6*d.*
109 SW [9]. (In preparation.) Rothbury, Ulgham, &c.
110 NW [1]. (In preparation.) Norham, and the English side of the Tweed.
110 NE [2]. (In preparation.) Berwick, and the coast line to the SE.
110 SW [3]. (In preparation.) Wooler, Cornhill, and part of the Cheviots.
110 SE [4]. (In preparation). Chillingham, Belford, Bamborough.

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COMPLETED COUNTIES.

For particulars see the detailed List of the separate Sheets, p. 9.

The Sheets marked * have Descriptive Memoirs.
Those marked † are illustrated by General Memoirs.

ANGLESEY,—Sheets 77 (N), 78. Horiz. Sect., 40.

BEDFORDSHIRE,—Sheets 46 (NW, NE, SW†, & SE†), 52 (NW, NE, SW, & SE).

BERKSHIRE,—Sheets 7*, 8†, 12*, 13*, 34*, 45 (SW*). Horiz. Sects., 59, 71, 72, 80.

BRECKNOCKSHIRE,—Sheets 36, 41, 42, 56 (NW & SW), 57 (NE & SE). Horiz. Sects., 4, 5, 6, 11; Vert. Sects., 4 and 10.

BUCKINGHAMSHIRE,—7*, 13*, 45* (NE, SE), 46 (NW, SW†), 52 (SW). Horiz. Sects., 74, 79.

CAERMARTHENSHIRE,—37, 38, 40, 41, 42 (NW & SW), 56 (SW), 57 (SW & SE). Horiz. Sects., 2, 3, 4, 7, 8, 9; Vert. Sects., 3, 4, 5, 6, 13, 14.

CAERNARVONSHIRE,—74 (NW), 75, 76, 77 (N), 78, 79 (NW & SW). Horiz. Sects., 28, 31, 40.

CARDIGANSHIRE,—40, 41, 56 (NW), 57, 58, 59 (SE), 60 (SW). Horiz. Sects., 4, 5, 6.

CHESHIRE,—73 (NE & NW), 79 (NE & SE), 80, 81 (NW* & SW*), 88 (SW). Horiz. Sects., 18, 43, 44, 60, 64, 65, 67, 70.

CORNWALL,—24†, 25†, 26†, 29†, 30†, 31†, 32†, & 33†.

DENBIGH,—73 (NW), 74, 75 (NE), 78 (NE & SE), 79 (NW, SW, & SE), 80 (SW). Horiz. Sects., 31, 35, 38, 39, 43, 44; Vert. Sect., 24.

DERBYSHIRE,—62 (NE), 63 (NW), 71 (NW, SW, & SE), 72 (NE, SE), 81, 82, 88 (SW, SE). Horiz. Sects., 18, 46, 60, 61, 69, 70.

DEVONSHIRE,—20†, 21†, 22†, 23†, 24†, 25†, 26†, & 27†. Horiz. Sects., 19.
† The Geology of the Counties of Cornwall and Devon is fully illustrated by Sir H. De la Beche's "Report." 8vo. 14*s*.

DORSETSHIRE,—15, 16, 17, 18, 21, 22. Horiz. Sects., 19, 20, 21, 22, 56; Vert. Sects., 22.

FLINTSHIRE,—74 (NE), 79. Horiz. Sect., 43.

GLAMORGANSHIRE,—20, 36, 37, 41, & 42 (SE & SW). Horiz. Sects., 7, 8, 9, 10, 11; Vert. Sects., 2, 4, 5, 6, 7, 9, 10, 47.

GLOUCESTERSHIRE,—19, 34*, 35, 43 (NE, SW, & SE), 44*. Horiz. Sects., 12, 13, 14, 15, 59; Vert. Sects., 7, 11, 15, 46, 47, 48, 49, 50, 51.

HAMPSHIRE,—8†, 9, 10*, 11, 12*, 14, 15, 16. Horiz. Sects., 3, 80.

HEREFORDSHIRE,—42 (NE & SE), 43, 55, 56 (NE & SE). Horiz. Sects., 5, 13, 27, 30, 34; Vert. Sect., 15.

KENT,—1† (SW & SE), 2†, 3†, 4*, 5, 6†. Horiz. Sects., 77 & 78.

MERIONETHSHIRE,—59 (NE & SE), 60 (NW), 74, 75 (NE & SE). Horiz. Sects., 26, 28, 29, 31, 32, 35, 37, 38, & 39.

MIDDLESEX,—1† (NW. & S.W.), 7*, 8†. Horiz. Sect., 79.

MONMOUTHSHIRE,—35, 36, 42 (SE & NE), 43 (SW). Horiz. Sects., 5 & 12, Vert. Sects., 8, 9, 10, & 12.

MONTGOMERYSHIRE,—56 (NW), 59 (NE & SE), 60, 74 (SW & SE). Horiz. Sects., 26, 27, 29, 30, 32, 34, 35, 36, 38, & 107.

NORTHAMPTONSHIRE,—64, 65 (NW & NE), 46 (NW), 52 (NW, NE, & SW), 53 (NE, SW, & SE), 63 (SE), 64.

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OXFORDSHIRE,—7*, 13*, 34*, 44*, 45*, 53 (SE*, SW). Horiz. Sects. 71, 72, 81, & 82.

PEMBROKESHIRE,—38, 39, 40, 41, 58. Horiz. Sects., 1 & 2; Vert. Sects., 12 & 13.

RADNORSHIRE,—42 (NW & NE), 56, 60 (SW & SE). Horiz. Sects., 5, 6, & 27.

RUTLANDSHIRE,—this County is included in Sheet 64.

SHROPSHIRE,—55 (NW, NE), 56 (NE), 60 (NE, SE), 61, 62 (NW, 73, 74 (NE, SE). Horiz. Sects., 24, 25, 30, 33, 34, 36, 41, 44, 45, 53, 54, & 58; Vert. Sects., 23, 24.

SOMERSETSHIRE,—18, 19, 20, 21, 27, 35. Horiz. Sects., 15, 16, 17, 20, 21, 22, 103, 104, & 105; Vert. Sects, 12, 46, 47, 48, 49, 50, & 51.

STAFFORDSHIRE,—54 (NW), 55 (NE), 61 (NE, SE), 62, 63 (NW), 71 (SW), 72, 73 (NE, SE), 81 (SE, SW). Horiz. Sects., 18, 23, 24, 25, 41, 42, 45, 49, 54, 57, 58, & 60; Vert. Sects., 16, 17, 18, 19, 20, 21, 23, & 26.

SURREY,—1 (SW†), 6†, 7*, 8†, 9. Horiz. Sects., 74, 75, 76, & 79.

SUSSEX,—4*, 5, 6, 8, 9, 11. Horiz. Sects., 73, 75, 76, 77, & 78.

WARWICKSHIRE,—44*, 45 (NW), 53*, 54, 62 (NE, SW, & SE), 63 (NW, SW, & SE). Horiz. Sects., 23, 48, 49, 50, 51, 82, & 83; Vert. Sect., 21.

WILTSHIRE,—12*, 13*, 14, 15, 18, 19, 34*, & 35. Horiz. Sects., 15 & 59.

WORCESTERSHIRE,—43 (NE), 44*, 54, 55, 62 (SW & SE), 61 (SE). Horiz. Sects. 13, 23, 25, 50, & 59; Vert. Sect., 15.

The Survey of all the counties is now (1884) completed; but many of the maps are as yet unpublished.

COALFIELDS.

Illustrated by the following One-Inch Maps.

(For corresponding Six-Inch Maps, see detailed list, pp. 24—30.)

ANGLESEY,—78 (SW).

BRISTOL and SOMERSET,—19, 35.

COALBROOK DALE,—61 (NE & SE).

CLEE HILL,—53 (NE, NW).

DENBIGHSHIRE,—74 (NE & SE), 79 (SE).

DERBYSHIRE,—71 (NW, SW, 72 NE, SW), 82 (NW & SW), 81 (NE), 88 (SW).

FLINTSHIRE,—79 (NE & SE).

FOREST OF DEAN,—35, 43 (SE & SW).

FOREST OF WYRE,—55 (NE), 61 (SE).

*LANCASHIRE,—80 (NW), 81 (NW), 88 (NW & SW), 89.

*LEICESTERSHIRE,—71 (SW), 63 (NW).

NORTHUMBERLAND and DURHAM,—103, 105, 109 SW. (SE).

*NORTH STAFFORDSHIRE,—72 (NW, SW), 73 (NE), 80 (SE), 81 (SW).

*SOUTH STAFFORDSHIRE,—54 (NW), 62 (SW).

SHREWSBURY,—60 (NE), 61 (NW & SW).

*SOUTH WALES,—36, 37, 38, 40, 41, 42 (SE, SW).

*WARWICKSHIRE,—62 (NE & SE), 63 (NW & SW), 54 (NE), 53 (NW).

*YORKSHIRE,—81 (NE), 82 (NW & NE), 87, 88, 92 (SW, SE), 93 (NW, SW).

* With descriptive Memoir.

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II.—SIX-INCH SCALE.

The following list includes all the county maps on the scale of six inches to the mile which have been engraved and published. Their price, except where otherwise stated, is six shillings each.

Besides these engraved sheets, manuscript coloured copies of many of the remaining six-inch maps of the respective counties are deposited for inspection in the Geological Survey Office. Copies of these maps can be obtained on the conditions stated on p. 5. There are also manuscript coloured maps of portions of the counties of Kent and Surrey, which can be supplied on the same conditions.

CUMBERLAND.

55. Scarness. (1878.) Horiz. Sect., 115.
56. Skiddaw. (1879.) Horiz. Sects., 116, 117.
63. Brackenthwaite Fell. (1878.) Horiz. Sects., 115.
64. Keswick. (1878.) Horiz. Sect., 116.
65. Dockraye. (1878.) Horiz. Sects., 117, 118.
69. Buttermere. (1878.) Horiz. Sect., 115.
70. Grange. (1878.) Horiz. Sects., 115, 116.
71 and 76. Helvellyn. (1878.) 4*s*. Horiz. Sect., 117.
74. Wastwater. (1878.) Horiz. Sects., 113, 114, 115.
75. Stonethwaite Fell. (1878.) Horiz. Sects., 115, 116.

DURHAM.

1. Ryton. (1868.) 4*s*. Vert. Sects., 29, 39.
2. Gateshead. (1868.) 4*s*. Vert. Sects., 29, 30.
3. Jarrow. (1868.) 4*s*. Horiz. Sect., 108.
4. S. Shields. (1868.) 4*s*. Horiz. Sect., 108.
5. Greenside. (1869.) 4*s*. Horiz. Sect., 108.
6. Winlaton. (1869.) Vert. Sect., 39. Horiz. Sect., 108.
7. Washington. (1868.) Vert. Sect., 39. Horiz. Sect., 108.
8. Sunderland. (1871.)
9. —— (1869.) 4*s*.
10. Edmond Byers. (1869.) 4*s*.
11. Ebchester. (1868.) Vert. Sect., 39. Horiz. Sect., 110.
12. Tantoby. (1871.) Horiz. Sect., 110.
13. Chester-le-Street. (1869.) Horiz. Sect., 110.
14. Silksworth. Engraving. Horiz. Sect., 110.
15. (Engraving.)
16. Hunstanworth. (1875.) Horiz. Sect., 110. Vert. Sect., 63.
17. Waskerley. (1871.) Horiz. Sect., 110.
18. Muggleswick. (1871.) Horiz. Sect., 110.
19. Lanchester. (1871.) Vert. Sect., 39.
20. Hetton-le-Hole. (1871.) Vert. Sect., 39.
22. Wear Head. (1880.)

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23. Eastgate. (1880.)
24. Stanhope. (1875.)
25. Wolsingham. (1871.)
26. Brancepeth. (1872.)
30. Bennyseat. (1880.)
31. (Engraving.)
32. White Kirkley, &c. (1875.) Vert. Sect., 63.
33. Hamsterley. (1875.)
34. Whitworth. (1875.)
35. Bishop Middleham. (1881.)
38. Maize Beck. (1880.)
39. (Engraving.)
40. (Engraving.)
41. Cockfield. (1875.)
42. Bishop Auckland. (1875.)
46. Hawksley Hill House. (1879.)
52. West of Winston. (1878.) 4*s.*
53. Winston. (1878.) 4*s.*

Sheets 1, 2, 3, 4, 5, 6, 7, 8, 11, 12, 13, 14, and parts of 10, 17, 18, 19, 20, 21, are included in One-inch Maps 103 NW. 105 SW, SE.

LANCASHIRE.

15. Ireleth. (1879.)
16. Ulverston. (1879.)
17. Cartmel. (1879.)
21. (Engraving.)
22. Gleaston. (1874.)
47. Clitheroe. (1874.) Horiz. Sect., 85.
48. Colne. (1869.) Horiz. Sect., 85.
49. Laneshaw Bridge. (1871.) Horiz. Sect., 62.
55. Whalley. (1874.) Horiz. Sect., 85.
56. Haggate. (1869.) Horiz. Sects., 62, 85; Vert. Sect., 33.
57. Winewall. (1871.)
61. Preston. (1875.) Horiz. Sects. 86, 87.
62. Balderstone, &c. (1869. Revised to 1874.) Horiz. Sect., 87.
63. Accrington. (1869. Revised to 1874.) Horiz. Sects., 62, 85; Vert. Sects., 33.
64. Burnley. (1869. Revised to 1872.) Horiz. Sects., 62, 85; Vert. Sect., 33.
65. Stiperden Moor. (1869.) 4*s.* Horiz. Sect., 85.
69. Layland. (1875.) Horiz. Sect., 86.
70. Blackburn, &c. (1870.) Horiz. Sect., 86; Vert. Sect., 33.
71. Haslingden. (1867.) Horiz. Sect., 62; Vert. Sect., 33.
72. Cliviger, Bacup, &c. (1867.) Horiz. Sect., 62.
73. Todmorden. (1867.) 4*s.* Horiz. Sect., 62.
77. Chorley. (1868. Revised to 1875.) Engraving. Horiz. Sects., 63, 86.

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78. Belmont. (1867.) Horiz. Sect., 86.
79. Entwistle. (1867.) Horiz. Sect., 62.
80. Tottington. (1867.)
81. Wardle. (1861.) Horiz. Sect., 66.
84. Ormskirk, St. John's, &c. (1861.) Horiz. Sect., 63.
85. Standish, &c. (1861.) Horiz. Sects., 63, 86.
86. Adlington, Horwich, &c. (1862.) Horiz. Sects., 63, 68.
87. Bolton-le-Moors. (1863.) Horiz. Sect., 67.
88. Bury, Heywood. (1863.) Horiz. Sect., 66.
89. Rochdale, &c. (1864.) Horiz. Sects., 62, 66.
92. Bickerstaffe, Skelmersdale. (1860). Horiz. Sects., 63.
93. Wigan, Up Holland, &c. (1861.) Horiz. Sects., 63, 68.
94. West Houghton, Hindley, Atherton. (1862.) Horiz. Sects., 63, 67, 86.
95. Radcliffe, Peel Swinton, &c. (1862.) Horiz. Sects., 66, 67; Vert. Sects., 33, 34.
96. Middleton, Prestwich, &c. (1863.) Horiz. Sects., 66.
97. Oldham, &c. (1863.) Horiz. Sects., 64; Vert. Sects., 33.
100. Knowsley, Rainford, &c. (1860.) Horiz. Sects., 67, 68.
101. Billinge, Ashton, &c. (1861.) Horiz. Sect., 68.
102. Leigh Lowton. (1862.) Horiz. Sect., 67.
103. Astley, Eccles. (1862.) Horiz. Sect., 66.
104. Manchester, Salford, &c. (1862.) Horiz. Sects., 64, 65; Vert. Sect., 33.
105. Ashton-under-Lyne. (1864.) Horiz. Sects., 64–65; Vert. Sect., 34.
106. Liverpool, &c. (1863.) Horiz. Sect., 68.
107. Prescott, Huyton, &c. (1860.) Horiz. Sect., 68.
108. St. Helen's, Burton Wood. (1860.) Horiz. Sect., 67.
109. Winwick. (1867.)
111. Cheadle, part of Stockport, &c. (1864.) Horiz. Sect., 64.
112. Stockport, &c. (1864.) 4*s.*
113. Part of Liverpool, &c. (1863.) 4*s.*

70, 71, 78, 79, and parts of 62, 63, 64, 72, 80 are included in the One inch Map 89 NE.

73, 81, and parts of 64, 65, 72, 81, are included in One-inch Map 88 NW.

92, 93, 100, 101, and parts of 84, 85, are included in the One-inch Map 89 SW. and are described in the "Memoir of the Geology of the Country around Wigan." Second edition. Price 1*s.*

94, 95, 102, 103, and parts of 86, 87, 88, 96, 104, are included in the One-inch Map 89 SE., and are described in the "Memoir on the Geology of the Country around Bolton-le-Moors."

107, 108, are included in the One-inch Map 80 NW., and are described in the "Memoir on the Geology of the Country around Prescot."

97, 105, and parts of 88, 89, 96, 104, on the Six-inch Scale, are included in 88 SW., and are described in the "Memoir on the Geology of the Country around Oldham, including Manchester and its Suburbs."

NORTHUMBERLAND.

44. Rothbury. (1878.)
45. Longframlington. (1879.)

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46. Felton. (1878.)
47. Coquet Island. (1871.) 4*s*. Vert. Sect., 55.
53. Rothbury Forest. (1880.)
54. Longhorsley. (1878.)
55. Ulgham. (1878.) Vert. Sect., 64.
56. Druridge Bay. (1870.) 4*s*.
61. Monkridge. Engraving.
64. Morpeth. (1879.)
65. Newbiggin. (1870.) 4*s*. Vert. Sect., 54.
72. Bedlington. (1871.) Vert. Sect., 41.
73. Blythe. (1867.) 4*s*. Vert. Sect., 29.
80. Cramlington. (1871.) Vert. Sect., 41.
81. Seghill. (1867.) Vert. Sect., 29.
82. County border NE. of Gilsland. (1879.)
83. ———. (1879.)
84. Newborough. (1871.)
85. Chollerton. (1871.)
87. Heddon on the Wall. (1873.)
88. South Gosforth. (1871.) Vert. Sects., 29, 41.
89. Tynemouth. (1867.) Vert. Sect., 29.
91. Greenhead. (1879.)
92. Haltwhistle. (1876.)
93. Haydon Bridge. (1880.)
94. Hexham. (1880.)
95. Ovingham. (1871.)
96. Newburn. (1868.)
97. Newcastle-on-Tyne. (1867.) 4*s*. Vert. Sect., 29.
98. Walker. (1867.) 4*s*.
101. ———. (1875.)
102. Allendale Town. (1874.)
103. Slayley. (1873.)
105. Newlands. (1871.) 4*s*.
106B. County border S. of Slaggyford. (1878.)
107. Allendale. (1875.)
108. Blanchland. (1870.)
109. Shotleyfield. (1871.) 4*s*.
110. ——— Engraving. (1877.) 4*s*.
111. Allenheads. (1873.)
112. County boundary E. of Allenheads. (1873.)

Sheets 70, 71, 72, 73, 78, 79, 80, 81, parts of 86, 87, 88, 89, are included in One-inch map 105 NE, NW.
Sheets 47, 56, part of 65, are included in One-inch map 109 SE.

WESTMORLAND.

2. Tees Head. (1879.) 4*s*.
6. Dufton Fell. (1879.)

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12. Patterdale. (1878.) Horiz. Sects., 117, 118.
18. County Boundary NW. of Grasmere. (1879.) 4*s*. Horiz. Sect., 116.
25. Grasmere. (1879.) Horiz. Sects., 115, 116.
38. Kendal. (1878.)

YORKSHIRE.

1. (Engraving.)
2. (Engraving.)
3. (Engraving.)
4. (Engraving.)
5. (Engraving.) Part of Teesdale. (1879.) 4*s*.
7. Coast line adjoining Redcar. (1881.)
8. (Engraving.)
9. Coast line adjoining Staiths. (1878.) 4*s*.
10. (Engraving.)
11. (Engraving.)
12. Stainmoor, around Bowes. (1879.)
13. Wycliffe. (1878.)
17. (Engraving.)
18. (Engraving.)
19. (Engraving.)
20. Coast line near Lythe. (1879.) 4*s*. Horiz. Sect., 130.
21. County Boundary E. of Kirkby Stephen. (1878.) 4*s*.
24. Kirkby Ravensworth. (1878.)
25. Aldboro'. (1879.)
32. Whitby. (1880.) Horiz. Sect., 130.
33. Coast N. of Robin's Hood's Bay. (1878.) 4*s*. Horiz. Sect., 130.
38. Marske. (1878.)
39. Richmond. (1879.)
46. District W. of Robin Hood's Bay. (1879.)
47. Coast from Robin Hood's Bay southward. (1879.) 4*s*. Horiz. Sect., 130.
53 Downholme. (1878.)
62 Cloughton Wyke and adjoining coast line. (1879.) Horiz. Sect., 130. Vert. Sect., 67.
68. Leyburn. (1881.)
77. Scalby and the coast line N. of Scarborough. (1878.) Horiz. Sect., 103.
78. Scarborough. (1878.) 4*s*. Vert. Sect., 67.
82. Kidstones. (1879.) Horiz. Sect., 129.
83. Carlton. (1878.) Horiz. Sect., 129.
84. East Witton. (1879.)
93. Brompton. (1879.) Horiz. Sect., 103.
94. Gristhorpe and the coast S. of Scarborough. (1879.) Vert. Sect., 67.
97. Foxup. (1880.)
98. Kirk Gill. (1878.)
99. Haden Carr. (1879.) Horiz. Sect., 129.
100. Lofthouse. (1875.)
115. Arncliff. (1878.)

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116. Conistone Moor. (1878.) Horiz. Sect., 129.
133. Kirkby Malham. (1878.)
134. (Engraving.)
135. (Engraving.)
151. (Engraving.)
152. (Engraving.)
168. (Engraving.)
184. Kelbrook. (1872.)
185. Kildwick. (1878.)
200. Keighley. (1878.)
201. Bingley. (1871.) Horiz. Sects., 95, 96, 102.
202. Calverley. (1878.) Horiz. Sects., 96, 97.
203. Seacroft. (1873.) Horiz. Sects., 98, 99, 101; Vert. Sect., 44.
204. Aberford. (1874.) Horiz. Sects., 100, 101.
215. Denholme. (1878.) Horiz. Sect., 102.
216. Bradford. (1875.) Horiz. Sect., 95; Vert. Sects., 35, 43.
217. Calverley. (1875.) Horiz. Sects., 96, 97, 101; Vert. Sects., 42, 43, 44.
218. Leeds. (1875.) Horiz. Sects., 97, 98, 99, 101; Vert. Sects., 40, 42, 44, 45.
219. Kippax. (1876.) Horiz. Sects., 99, 100; Vert. Sects., 40, 45.
231. Halifax. (1874.) Horiz. Sects., 95, 101; Vert. Sects., 35, 42, 43.
232. Birstal. (1873.) Horiz. Sects., 95, 96, 101; Vert. Sects., 40, 42, 45.
233. East Ardsley. (1876.) Horiz. Sects., 94, 97, 98; Vert. Sects., 37, 38, 40, 45.
234. Castleford. (1876.) Horiz. Sects., 91, 92, 93, 94, 98, 99, 100; Vert. Sects., 37, 38, 45.
246. Huddersfield. (1871.) 6s. Horiz. Sect., 94; Vert. Sect., 35.
247. Dewsbury. (1876.) Horiz. Sects., 93, 94, 95, 96; Vert. Sects., 35, 40, 42, 43.
248. Wakefield. (1875.) Horiz. Sects., 91, 93, 94, 95, 96, 97; Vert. Sects., 36, 37, 38.
249. High Ackworth. (1875.) Horiz. Sects., 91, 92, 93, 97, 98, 100; Vert. Sects., 36, 38.
250. Womersley. (1876.) Horiz. Sect., 90.
260. Honley. (1871.) Horiz. Sect., 93; Vert. Sect., 35.
261. Kirkburton. (1875.) Horiz. Sect., 93; Vert. Sects. 35, 37, 40.
262. Royston. (1874.) Horiz. Sects., 91, 92, 95, 96; Vert. Sects. 36, 37.
263. Hemsworth. (1875.) Horiz. Sects., 90, 92, 95, 96, 97, 98, 100.
264. Campsall. (1875.) Horiz. Sects., 89, 90; Vert. Sect., 35.
272. Holmfirth. (1871.) Vert. Sect., 35.
273. Penistone. (1871.) Horiz. Sects., 91, 92.
274. Barnsley. (1871.) Horiz. Sects., 91, 92; Vert. Sects., 30, 31, 32, 35, 36, 37.
275. Darfield. (1875.) Horiz. Sects., 90, 91, 95, 97; Vert. Sect., 30.
276. Brodsworth. (1876.) Horiz. Sects., 89, 95, 97.
281. Langsett. (1871.) Horiz. Sects., 91, 92; Vert. Sect., 35.
282. Wortley. (1873.) Horiz. Sects., 90, 91; Vert. Sect., 32.
283. Wath-upon-Dearne. (1875.) Horiz. Sects., 88, 89, 90; Vert. Sect. 31.
284. Conisborough. (1875.) Horiz. Sects., 88, 97; Vert. Sect., 30.

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287. Low Bradford. (1869.) Horiz. Sects., 90, 91.
288. Ecclesfield. (1874.) Horiz. Sects., 88, 89, 90; Vert. Sects., 32, 35.
289. Rotherham. (1876.) Horiz. Sects., 69, 88, 89; Vert. Sects., 30, 31, 32.
290. Braithwell. (1875.) Horiz. Sects., 69, 88.
293. Hallam Moors. (1869.) Horiz. Sects., 69, 89, 90.
294. Sheffield. (1876.) Horiz. Sects., 69, 89. Vert. Sect. 32.
295. Handsworth. (1875.) Horiz. Sects., 69, 88; Vert. Sects., 31, 32.
296. Laughton-en-le-Morthen. (1875.)
299. ———. (1875.) 4*s*. Vert. Sect., 31.
300. Harthill. (1875.) Vert. Sect., 31.

INDEX GEOLOGICAL MAP OF WALES, with parts of the adjacent Counties. Scale, one inch to four miles (being a reduction of the one-inch Maps, Sheets 35, 36, 37, 38, 40, 41, 42, 43, 55, 56, 57, 58, 59, 60, 61, 73, 74, 75, 76, 77, 78, 79, 80.

Sheet.	Locality.	Comprising one-inch Maps.
*9	St. Davids, Pembroke, Swansea, The Mumbles, Llandovery, &c. (1858.) Price 3*s*. 6*d*.	Sheets 37, 38, 40, 41.
*10	Brecon, Hereford, Monmouth (Wye Valley), Newport, Cardiff, Bristol, Chepstow, and Tintern, &c. (1858.) Price 3*s*. 6*d*.	„ 35, 36, 42, 43.
14	Barmouth, Aberystwith, Cardigan, Dolgelly, Cader Idris, &c. (1858.) Price 3*s*. 6*d*.	„ 57, 58, 59.
15	Shrewsbury, Welshpool, Montgomery, Ludlow, Builth, Coalbrook Dale, &c. (1858.) Price 3*s*. 6*d*.	„ 55, 56, 60, 61.
19	Anglesey, Holyhead, Beaumaris, Caernarvon, Bangor, Harlech, Snowdon, Bettws-y-Coed, &c. (1858.) Price 3*s*. 6*d*.	„ 75, 76, 77, 78.
20	Liverpool, Flint, Chester, Wrexham, Llangollen, Oswestry, Middlewich, &c. (1858.) Price 3*s*. 6*d*.	„ 73, 74, 79, 80.

* New Editions published in 1874.

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An Index to the colours and signs employed in the Geological Survey of Great Britain, forming a complete stratigraphical list of all the known British Strata, is supplied through the Agents. Price 5*s*. per copy.

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HORIZONTAL SECTIONS.

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These Sections, geologically coloured, are drawn to the scale of six inches to a mile, horizontally and vertically, and describe in detail the Geology of the Country over which they are drawn, giving the true outline of the ground and the actual inclination of the beds. Descriptions are engraved on each plate, thus rendering each Section a concise Report on the district it traverses. The size of each plate is 3 ft. 3 in. by 2 ft. 3 in. They are engraved on copper, and are coloured in accordance with the Maps. Sheets 1 to 137 price 5*s.* each.

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Sheet

1. Section 1. From St. Bride's Bay, near Solva, Pembroke, to the North Cliff of Ynys-y-Barry. Section 2. Across Pembroke from St. Govan's Head to Dinas Head, near Fishguard. (1845. Revised to 1857.) [Illustrates Maps 38 and 40.]

2. Section 1. From the Sea, near Tenby, through Sandersfoot, to Landewi Velfrey, Pembroke. (Vert. Sect., 13.) Section 2. From near Cil-rhiw through Lampeter, Velfrey, and Panteg, to near Hendre, Pembroke. Section 3. Through Pant Yiar and Clog-y-Fran, Caermarthen. (Vert. Sect., 13.) Section 4. From Laugharne to the River Dewi Fawr, Caermarthen. Section 5. From Maes Gwrda to Mydrim, Caermarthen. (Vert. Sect., 13.) Section 6. Across the Traps and Conglomerates of Pen-y-Moelfre, SW. of Caermarthen. (1844.) [Illustrates Maps 38, 40, and 41.]

3. Section 1. From Cerrig-dwfn to Mynydd-banc-y-ffair. Section 2. From near Llandibie to Llangathen. Section 3. From the Black Mountain, near Llangadoc, to Cefn-llwyn hir, Caermarthen. (1844.) (Vert. Sect., 14.) [Illustrates Map 41.]

4. Section from the Old Red Sandstone, Mynydd Bwlch-y-groes, Brecknock to Craig-ddu, Cardigan Bay, between Aber-arth and Llansantffraid. (1845. Revised to 1858.) [Illustrates Maps 41, 42 NW., 57 SE. and 58.]

5 and 6. Section 1. Across the Old Red Sandstone and Silurian Rocks, from the Black Mountain Range SE. of Glasbury, to Allt-wen, Cardigan Bay, near Aberystwith. Section 2. Across the Silurian Rocks, from Gwaun Ceste to Rhiw Gwraidd, Radnor. (No. 5. 1845. Revised to 1858.) [Illustrates Maps 42 NE., 56, and 57 NE.]

7. Section 1. Across the Coalfield of South Wales, from the Mountain Limestone near Mynydd Garreg, by Pembray, to the Mountain Limestone near Spritsail Tor, Llanmadoc Gower. (Vert. Sect., 1.) Section 2. On the North Crop of the South Welsh Coalfield, from Brondyne Hill, by Pont Yates, to the Mountain Limestone near Yr Hen Goed, Caermarthenshire. (Vert. Sect., 3.) Section 3. From Pen-clawdd, across Cefn-y-bryn, to Oxwich Point, Gower. (Vert. Sect., 2.) [Illustrates Maps 37 and 41.]

8. Section across the Coal Measures of Caermarthenshire and Glamorganshire, from the Carboniferous Limestone on the North of Cottage Hall, to the Sea in Caswell Bay. [Illustrates Maps 37 and 41. New Edition.]

9. Section 1. Across the South Wales Coalfield, from Craig and Cefn Drim, by Mynydd Carn Goch and Cline Wood, to the Mountain Limestone at Caswell Bay, Gower, Glamorganshire. [Illustrates Maps 37 and 41.] New Edition. (Vert. Sect., 6.) Section 2. From Cilfay Hill, Swansea; to Castell Craig Cennen, on the north crop of the Mountain Limestone.

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Sheet

10. Section 1. Across part of the Coalfield of Glamorgan, from near Bryn Cethin Uchaf, by Mynydd Llangeinor to Blaen Afon. Section 2. Across part of the Coalfield of Glamorgan, from Mynydd Moel Geulau to Mynydd Llandyfodwg. Section 3. Across part of the Coalfield of Glamorgan, from the Ogmore, near Bryn Menyn, to Blaen Afon. (Vert. Sect., 7.) Section 4. Coal Measures of Glamorgan, from Trecastell to the Rhondda. [Illustrates Map 36.]

11. Section near the Bendrick Rock, near Barry Island, Glamorgan, to Allt Llwyd, Brecknock. (1848.) [Illustrates Maps 20, 36, and 42 SW.]

12. Section from the Ebwy River, near Cefn Crib, Monmouth, across the Forest of Dean to Garden Cliff, Gloucester. [Illustrates Maps 35, 36, and 43 SW. and SE.] (Vert. Sect. 7.)

13. Section 1. From Edge Hill, Forest of Dean, to Taynton House. Section 2. Across the Silurian District of Woolhope. (Vert. Sect. 15.) Section 3. Through Keys End Hill and Berrow Hill. Section 4. From near Ledbury, through Sitch Wood, over the North point of Swinyard Hill. Section 5. From Old Castle through the Herefordshire Beacon, Malvern Hills. Section 6. From Brockhill Copse through the Wych, Malvern Hills. Section 7. From near Hall Court through the Worcestershire Beacon, Malvern Hills. Section 8. By Howler's Heath and the Obelisk in Eastnor Park. [Illustrates Maps 43 NW., NE., and SE., and 55 SE.]

14. Section 1. From Pyrton Passage, through Cam Long Down and Uley Bury, to Kingscote Park, Gloucester. Section 2. From the Great Western Railroad, near Saltford Station, to the Box Valley near Slaughterford. (Vert. Sect., 11.) Section 3. From Dodington Park, by Winterbourn, to the Severn Flats, near Almondsbury. (1845. Revised to 1867.) Crosses Horiz. Sect., 107. [Illustrates Maps 19 and 35.]

15. Section 1. Continuation of Section 1, Sheet 22. From Ridge Barn Hill, near Castle Cary, Somerset, to Jay Hill, near Bitton, Gloucester. Section 2. Through the Coal Measures of the Forest of Dean, Gloucestershire, from South to North. Vert. Sects., 7 and 50. (1845. Revised to 1871.) [Illustrates Maps 19, 35, and 43 SE.]

16. Section 1. From Mere, Wilts, to Vobster, Somerset. Section 2. From the Mendip Hills to Nailsea Station, Bristol and Exeter Railway. Section 3. From Axbridge to Congresbury Moor, Somerset. (1845. Revised to 1871.) (Vert. Sect., 50.) [Illustrates Map 19.]

17. Section from Glastonbury Tor, across the Mendip Hills, and by Dundry Hill, Clifton, Bristol, and Blaize Castle to the Severn Flats, near Compton Greenfield. (1844. Revised to 1871.) Crosses Horiz. Sect., 106. [Illustrates Maps 19 and 35.]

*18. From the Red-Marl plain of Cheshire, across the Lower Carboniferous rocks of North Staffordshire, the Mountain Limestone and the Coalfield of Derbyshire, to the Magnesian Limestone near Bolsover.

Section from the Red-Marl plain of Cheshire to the River Dane. From the River Dane through Axe Edge towards Chelmerton Low. Through Chelmerton Low by Taddington to Ashford. From Ashford, across Chatsworth Park and Eastmoor. From Eastmoor to Chesterfield. From Chesterfield to Bolsover. (Revised to 1866.) [Illustrates Maps 81, SW., SE., 82 SW.]

19. From the Tertiary Rocks of Knighton Heath, Dorsetshire, Westward to the neighbourhood of Honiton, Devonshire. It crosses the Chalk and Tertiaries of Blackdown, the Greensand and Oxford Clay of the Bredy Valley, and the Kimeridge Clay, Coral Rag, Greensand, and Oxford Clay, West of Litton Cheney; the Fuller's Earth and Greensand of Shipton Beacon, the Oolites and Marlstone near Walditch, the Greensand and Upper Lias Sands of Eype Down, the Greensand and Marlstone of Pilcomb and Stonebarrow, the Greensand and Lias of Uplyme Hill, &c. and the Chalk, Greensand, and New Red Marl of the East of Devonshire (1851.) [Illustrates Maps 17, 18, and 21.]

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Sheet

20. From the Bill of Portland, Dorsetshire, to Ridge Barn Hill, near Castle Cary, Somersetshire. (1852.) (Vert. Sects., 22.) Continued in Sheet 22, Section 1. Joins No. 15, which is a continuation of it. [Illustrates Maps 17, 18, 19.]

21. From the Sea, at Golden Cap, Dorsetshire; to the River Brue, South of Glastonbury Tor, Somerset. New. (1852. Revised to 1873.). [Illustrates Maps 17, 18, and 19.] This Section joins No. 17.

22. Section 1. Continuation of Sheet 20.
Section 2. Section from the Coast east of Lulworth Cove, Dorsetshire, to Cadbury Castle, Somersetshire. (Revised to .) [Illustrates Maps 17, 18, and 19.]

23. No. 1. South Staffordshire Section. North and South from Bellbroughton, through the Clent Hills, Dudley, Bentley, Norton, Beaudesert, and Brereton, to the neighbourhood of Rugeley. Continued in Horiz. Sects., 57. No. 4. A little South of Rugeley, across the extreme Northern end of the South Staffordshire Coalfield. No. 5. East and West from Wyrley to the Brown Hills, &c. (1853.) [Illustrates Maps 62 NW. and SW. and 54 NW.] (Vert. Sects., 16.) Joins Horiz. Sect., 58.

24. No. 2. North and South from Lappal by Rowley, Dudley, and Sedgley, to Compton, near Wolverhampton. No. 3. North and South, through Hagley Park, Brierley Hill, Barrow Hill, Turner's Hill, and Lidget Hill, No. 6. East and West, through Sedgley, Darlaston, and Walsall, to Bars Beacon. (1856. Revised to 1865.) [Illustrates Maps 62 SW. and 54 NW. Joins Sheet 49.] Vert. Sect., 17.

25. No. 7. East and West, through Kingswinford, Dudley, and Westbromwich. No. 8. East and West, through Wordesley, Brierley Hill, Rowley, and Langley. No. 9. East and West, from Stourbridge by Cradley, the Hawn, Mucklow Hill, and the Quinton. No. 10. North and South, through Frankley Beeches, Hasbury, Hawn (near Halesowen), to the Old Lion Colliery. (1853. Revised to 1865.) [Illustrates Maps 62 SW. and 54 NW.] (Vert. Sects. 18, 26.)

26. From Cardigan Bay over Cader Idris. (1852.) [Illustrates Maps 75 SE., 59 NE., 60 NW., and 60 SW.] Continued in—

27. Across Radnor Forest and Hanter Hill, to the Old Red Sandstone near Fern Hall, South of Kingston, Herefordshire. (1852.) [Illustrating Maps 60 SW., 56 NW., NE., SE.]

28, 29, 30. From Llanfair-is-gaer, Menai Straits, over the Cambrian and Silurian Rocks of Dinas, Snowdon, Cyn icht, Moel-wyn, Cors-goch (near Trawsfynydd), Aran Mowddwy and Newtown, Montgomeryshire, and the Upper Silurian rocks and Old Red Sandstone of Clun Forest, Bucknall, Wigmore Valley, Orleton, &c. near Ludlow.
Each sheet is perfect as a separate Section; 28 contains Snowdon; 29 Aran Mowddwy; 30 Clun Forest, the Ludlow country, &c. (1853.) [Illustrate Maps 60 NW., 60 SW., 74 SW., 75 NE., 75 SE., 78 SW., and 78 SE.]

31, 32, 33. From the Suspension Bridge, Menai Straits, across Y-Glyderfawr, Moel-Siabod, Bala Lake, Gallt-yr-ancr, near Meifod, Corndon Hill, and the Longmynds, to the Coal Measures, Titterstone Clee Hill, Shropshire. General direction, South-easterly. (1854.) [Illustrate Maps 55 NE., NW., 60 NW., NE., SE., 61 SW., 74 NW., SW., 75 NE., 78 SE.]

34. Section from the Vale of Severn, near Welshpool, Montgomeryshire, to Corve Dale, Shropshire.
Section from the Old Red Sandstone, near Croft, across the Wigmore Valley to the River Teme, near Downton Castle, Ludlow.
Section from the Lawley (Trap) Hill, to the Wenlock Shale, under Wenlock Edge, Shropshire. (1854.) [Illustrates Maps 55 NW., 60 NE., SE., 61 SW.] Joins Section 33; crosses Sect. 30.

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Sheet

35. From Cwm-cywen, 4½ miles North-east of Bala, over Cader Berwyn, the Breidden Hills, the Stiper Stones, Caer Caradoc, Wenlock Edge, and the Brown Clee Hill. (1853.) [Illustrates Maps 74 NW., 74 SW., 74 SE., and 60 NE.] Continued in Horizontal Section 36.

36. In part a continuation of Sheet 35; the remaining portion is a Section across the Brown-and the Titterstone Clee Hills. (1854.) [Illustrates Maps 60 NE., 61 NW., 61 SW., 55 NW.]

37. Section from Harlech, Cardigan Bay, Merionethshire, over Rhinog and Rhobell-fawr, Moel-ddu (north end of the Aran range), Pen-y-boncyn, Post-gwyn (the Berwyns), to the Carboniferous Limestone near Pentre-Cefn, Oswestry. (1854.) [Illustrates Maps 75 SE., 74 SW.] Crosses Sects. 29, 32.

38. Section 1.—Continuation of Sheet 37, from Post Gwyn across Craig-y-glyn to the Carboniferous Limestone, near Oswestry. (1855.) [Illustrates Maps 60 NE. and 74 NE., SE., SW.] Continued in Horiz. Sects. 58.)
Section 2.—From the Wenlock Shale west of Meifod across Craig-y-glyn, Moel-goch, the Dee valley, &c. to the New Red Sandstone of the Vale of Clwyd.

39. Section from Arenig-fawr to the Coal Measures, near Wrexham. (1855.) [Illustrates Maps 75 SE. and 74 SW., NW., NE.]

*40. Section from Porth Llanlliana, near Llanbadrig, across Anglesea to the Menai Straits at Llanidan (continuing the Snowdon Section, Sheet 28). —Section across Anglesea from Point Ælianus to the Menai Bridge by Traeth Dulas and Pentraeth. (1857.) Reference Geological Map 78 NW., SW., SE. (Continuing the Moel-Siabod and Y-Glyder-fawr Section, Sheet 31).

*41. Section from South-west to North-east, across Lower Lias, New Red Sandstone, Permian, the North Staffordshire Coalfield and Carboniferous Limestone, through Norton, Whitmore Heath, Longton, to Waterfall Low. (1857.) [Illustrates Geological Maps 73 NE., 72 NW., NE.]

42. Section from West to East across the New Red Sandstone, the North Staffordshire Coalfield and Carboniferous Limestone, through Talk, Endon, and Parwich. (1857. Revised to 1868.) [Illustrates Quarter Sheets 73 NE., 72 NW., NE.] Continued in Sheet 57, Section 1, and in Sheet 55, 2.

*43. Across the Wenlock Shale W. of Ruthin, and Moel-fammau, the New Red Sandstone in the Vale of Clwyd, Denbighshire; the Flintshire Coalfield, between Mold and the River Dee, and the New Red Sandstone of Chester and Delamere Forest. (1858.) [Illustrates Maps 79 SW., SE., 80 SW.] (New Edition in preparation.)

*44. No. 1. Across the Denbighshire Coalfield, through Bwlch Gwyn and Brymbo, the Permian Rocks N. of Wrexham, and New Red Sandstone of Holt, and the Peckforton Hills.
No. 2. Through Tan-y-Castell, Wynnstay House, and Overton, across the Denbighshire Coalfield, Permian and New Red Sandstone. (1858.) [Illustrates Maps 73 NW., 74 NE.]

*45. No. 1. From West to East, across the Upper Silurian rocks, and Coal Measures South of Coalbrooke Dale, Shropshire; the Permian and New Red Sandstone, near Beckbury, Wrottesley Park, and Bushbury; and the South Staffordshire Coalfield, by Essington Wood, and Pelsall Wood to the Lichfield Road. Crosses Section 1, Sheet 23. (Vert. Sects., 26.)
No. 2. From Preston, Brockhurst, to Hawkestone Park, Shropshire, through the New Red Sandstone and Marl. (1858.)
[Illustrates Maps 61 NE., 62 NW., NE., 73 SW.]

*46. No. 1. North-west to South-east, from the Trent, near Repton, to Bardon Hill, Leicestershire, crossing the New Red Sandstone, the Coleorton Coalfield, by Whitwick and Swannington Collieries, and the Millstone Grit and the Carboniferous Limestone, near Ticknall, Derbyshire. Crosses Sect. 1, Sheet 40.

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Sheet

No. 3. From Nailstone Church through Bagworth Colliery, Charnwood Forest, to the Lias Limestone quarries of Barrow-on-Soar. (1858.) [Illustrate Maps 63 NW., NE., 71 SW.] (Vert. Sects., 19, 20.)

*47. No. 1. From Totland's Bay across the Western extremity of Headon Hill to the Sea, near the Main Bench.

No. 2. From the Solent, near Worsley's Tower, to the Sea, under Highdown Beacon. No. 3. From Hempstead Cliff to Hanover Point. No. 4. From Norris Castle to Rocken End. No. 5. From Binstead to Ventnor Cove. (1858.)

[Illustrate Maps 10, 11 (across the Isle of Wight)].

(Vert. Sects., 25.) Revised Edition, published July, 1870.

*48. This Sheet is a continuation of Section 5, Sheet 23. From Lazy Hill across the Permian and the New Red Sandstone to Glascote; the North end of the Warwickshire Coalfield, through Glascote Colliery, Hermitage Hill, and Polesworth, to Grendon; from Grendon, through Orton-on-the-Hill, Gopsall Park, Heather Mill, near Whitwick Colliery, the North end of Charnwood Forest, Garendon Park, to Wysall, near Loughborough, Leicestershire. (1858.) [Illustrates Maps 62 NE., 63 NE., NW., 71 SE.] (Vert. Sects., 19, 21.)

*49. No. 1. From Barr Beacon, across the New Red Sandstone, Permian Strata, and the Warwickshire Coalfield, through Sutton Park, Kingsbury, Hurley, Baxterley, and Merevale, to Radcliffe Culey, near Atherstone.

No. 2. From the New Red Sandstone at Bodymoor Heath, near Kingsbury, across the Warwickshire Coalfield, through Cliff, Hockley, and Wilnecote, to Shuttington Church; from Shuttington, across the New Red Sandstone, by No-Man's Heath and Donisthorpe; the Leicestershire Coalfield, by Moira, the Carboniferous Limestone of Ticknell, to the New Red Marl and Alabaster beds of Chellaston Hill, Derbyshire. (1858.) [Illustrates Maps 62 SE. and NE., 63 SW. and NW., and 71 SW.] Continuation of Section 6, Sheet 24. Continued in Horizontal Section 2, Sheet 60. Crosses Horiz. Sect. No. 2, Sheet 52, and No. 1, Sheet 46. (Vert. Sect., 20.)

*50. From Neen Soller, near Cleobury Mortimer, Worcestershire, to the Ashby Canal, near Nuneaton, Warwickshire, across the Forest of Wyre, and Warwickshire Coalfield, through the intervening Permian, New Red Sandstone, and Lias strata of Warshill, the Clent Hills, Frankly Beeches, King's Norton, Knowle, Meriden, Cooley, &c. (1858.) [Illustrates Maps 55 NE., 54 NW., NE., 62 SE., 63 SW.]

*51. No. 1. Across the New Red Sandstone, Permian strata, and the South part of the Warwickshire Coalfield, near Bedworth.

No. 2. From Duke End, at Maxstoke, near Coleshill, across the New Red Sandstone, the Permian, and the Coalfield of Warwickshire, through Arley Wood, Ansley, and Nuneaton Common, to the Watling Street, between Nuneaton and Atherstone. (1858.) [Illustrate Maps 54 NE., 62 SE., 63 SW.] A continuation of Sheet 50.

(Vert. Sects., 21.)

*52. No. 1. From the Trent at Newton Solney, to Swepstone, crossing the Ashby-de-la-Zouch Coalfield, Leicestershire, to Newhall, Gresley, Moira, and Measham Hall.

No. 2. From West to East, across the New Red Sandstone, by Linton, the Coal Measures of Ashby Wolds, and Coleorton Common, the Carboniferous Limestone of Grace Dieu, and the Cambrian Rocks of Charnwood Forest. (1858.) [Illustrate Maps 62 NE., 63 NW., NE., 71 SW.] (Vert. Sects., 19, 20.)

*53. No. 1. (Joins Horiz. Sects., 35.)

No. 2. (Joins Section 8, Sheet 25.)

(1859.) [Illustrate Maps 60 NE., 61 NW., SW., 73 SW., 62 SW.]

*54. No. 1. From North-west to South-east, across the Wrekin, Coalbrookdale Coalfield, Shropshire, and the New Red Sandstone of Beckbury, Pattingham, and Oreton Hill, to Baggeridge Wood, South of Wolverhampton, Staffordshire. (Joins Section 6, Sheet 24.)

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Sheet

No. 2. From West to East, through Bridgenorth and Claverley, Shropshire, to Oreton Hill, South Staffordshire, through the Old Red Sandstone, Coal Measures, Permian, and New Red Sandstone. (1858.) [Illustrates Maps 61 NE., SE., 62 NW., SW.] Joins Section 6, Sheet 24.

55. No. 1. West to East, from the New Red Sandstone at Woore, across the Permian Strata of Keel and Newcastle, through the North Staffordshire Coalfield, by Hanley and Cheddleton, to the Millstone Grit of Morridge.

No. 2. From South to North, from near Radburn, by Kirk Langley, to Turnditch, across the New Red Sandstone, Millstone Grit, and Carboniferous Limestone Shale. (1859.) [Illustrates Maps 73 NE., 72 NW., 71 SW., NW.] (Joins Section 1, Sheet 42.)

56. No. 1. From the Sea, at Broad Bench, to Worgret Heath, near Wareham. No. 2. From the Sea, at St. Alban's Head, to Russell Quay, in Wareham Bay. No. 3. From the Sea, at Tilly Whim, across Branksea Island, to Poole Harbour. No. 4. From the Sea, East of Lulworth Cove, to Bindon Hill (on a scale of three chains to an inch).

No. 5. A Vertical Section of the Purbeck Strata, at Lulworth Cove (on the scale of 10 feet to an inch), to illustrate Horizontal Section No. 4, on the same Sheet. (Vert. Sects., 22.) (1859.)
[Illustrate Maps 16, 17 (Isle of Purbeck, Dorsetshire.)]

57. No. 1. From the River Meese, near Cold Meese Mill, through Darlaston Park, Cheadle Hill, Throwley Low. (Continuation of Sheet 42.)

No. 2. (Continuation of No. 1, Sheet 23.) From the East side of the Trent and Mersey Canal, near Rugeley, across Abbotts Bromley, Bagot Park, Needwood Forest, to the Weaver Hills, Derbyshire. (1859.)
[Illustrate Maps 62 NE., 72 NE. NW. SE. SW.]

58. No. 1. From W. to E. from Pentre-Cefn by Drill, S. of Oswestry, Twyford Cross, and Boreaton Pary, Shropshire, crossing the Carboniferous Limestone, the Coal Measures, and the New Red Sandstone. (Continuation of Section I., Sheet 38.)

No. 2. From W. to E. From Cludley, near Wellington, across the Coalbrook Dale Coalfield, the Permian Rocks, and the New Red Sandstone, near Shiffnal and Brewood, to the western border of the S. Staffordshire Coalfield, S. of Cannock. (1860.) [Illustrates Maps 56 NE., SE., 61 NE., 62 NW., 73 SW., 74 SE.] (Joins Section 5, Sheet 23.)

*59. Section from Marlborough Downs, Wiltshire, on the South, to the River Avon, near Great Comberton, Worcestershire, on the North; crossing the Cretaceous, Oolitic, and Liassic formations of Barbary Hill, Swindon Hill, the Cotteswold Hills, and the Outlier of Bredon Cloud. (1860.) [Illustrates Maps 34, 44.]

60. No. 1. From West to East. Crossing the Carboniferous Limestone by Wirksworth and Crich, the Derbyshire Coalfield by Wingfield Manor, Alfreton Common, Pinxton and Portland Collieries, and the Magnesian Limestone and New Red Sandstone of Kirkby Woodhouse and Kirkby Forest.

No. 2. SSW. to NNE. From the Valley of the Derwent, by Elvaston Park, Derbyshire; crossing part of Derbyshire Coalfield, &c. (New Edn., 1868.) [Illustrate Maps 71 NW., SW., NE.] (Continued from Horiz. Sects. 42.)

*61. Section 1. W. to E. From the Erwash Valley Railway, near Codnor Park, across part of the Derbyshire Coalfield, the Magnesian Limestone, and the New Red Sandstone and Marl to Toot Hill, S. of Bingham.

Section 2. W. to E. From E. of Chesterfield, crossing the Coal Measures to Bolsover, across the Magnesian Limestone, New Red Sandstone and Marl, to the Windmill 3½ miles E. of Ollerton. (1861.) [Illustrate Maps 71 NW., NE., 82 SW., SE.]

62. Section 1. From Harwood Church on the South, to Clone on the North, across the Burnley Coalfield, and adjoining Carboniferous tracts of Affeside, Holcombe Moor, and Haslington.

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Sheet

Section 2. From Bull Hill on the South-West, to Black Hambledon, near Todmorden, on the North-East by Newchurch-in-Rossendale, Bacup, and Portsmouth. Showing the structure of the Carboniferous Rocks. (1870.) [Illustrate Maps 89 NE., SE., 88 NW., 92 SW. (49, 56, 63, 64, 71, 72, 73, 79, 89, 6-inch Lancashire, 229, 6-inch Yorkshire.)]

*63. Section 1. From the Irish Sea near Southport on the North-West, to Winstanley Park, joining Horizontal Section Sheet 68, on the South-East, showing the Triassic and Carboniferous Formations.

Section 2. From the Irish Sea near Hesketh Bank, on the North-West, by Croston, Eccleston, Coppul, and Haigh, joining Horiz. Sects., 68, and showing the Triassic and the Carboniferous Formations. (1871.) [Illustrate Maps 89 NW., SW., SE., 90 NE., SE.] (67, 68, 75, 76, 77, 83, 84, 85, 86, 92, 93, 94. 6-inch, Lancashire.)

*64. From Northwich on the SW., to Marsden, Yorkshire, on the NE.; through Bowdon, Altrincham, Manchester, and Glodwick. (1864.) [Illustrates Maps 80 NE, 89 SE., 88 SW. (97, 104, 105, 111, 6-inch. Lancashire)]. Joins Horiz. Sect. 94.

*65. No. 1. From Manchester on the West, to the River Etherow, in Longendale, on the East; by Openshaw, Droylesden, Dukinfield Collieries and Tintwistle.

No. 2. From Bowdon, Cheshire, to West End Moor, Derbyshire, on the East; by Didsbury, Stockport, Bredbury Collieries and Compstall. (1865.) [Illustrate 80 NE., 81 NW., NE., 88 SW.] (Six-inch Maps 104, 105.)

(Vert. Sects., 34.)

*66. From Soreton Heath near Lymen, Cheshire, on the SW., to the Vale of Todmorden, Lancashire, on the NE.; by Carrington, Patricroft Colliery, Clifton, Whitefield, Heywood, and Rochdale. (1866.) [Illustrates 80 NE., 88 NW., SW., 89 SE. (81, 88, 89, 95, 96, 103, 110, 6-inch. Lancashire)].

(Vert. Sects., 34.)

*67. Section 1. From Culcheth Hall on the SW., to Harwood Church, on the NE; by Bedford, Tyldesley, Wharton, and Great Lever near Bolton-le-Moors.

Section 2. From Arley Hall, Cheshire, on the SE. to Windle Moss, Lancashire, on the NE.; by Warrington, Bold Park, Sutton, and St. Helens. (1865.) [Illustrate 80 NE., NW., 89 SE., SW. (87, 94, 95, 100, 102, 108, 6-inch, Lancashire)].

*68. Section 1. From Little Eye Island in the Estuary of the Dee, on the West, to Horwich Moor, Lancashire, on the East; by Birkenhead, Liverpool, Croxteth and Knowsley Parks, Billinge Beacon, and the Wigan Coal District. (1865.) [Illustrates Maps 79 NE., 80 NW., 89 SE. (86, 93, 100, 101, 106, 107, 6-inch. Lancashire)].

*69. From Doghill Green, Cheshire, across the Poynton Coalfield, the Lower Carboniferous Rock of the Peak of Derbyshire, of Derwent Edge, Strines Edge, and Lodge Moors, and the Coalfield of Hallamshire, Yorkshire, North of Sheffield. (1867. Revised to 1872.) [Illustrates 81 NW., NE., 82 NW. (289, 290, 293, 294, 295, 6-inch. Yorkshire)]. (Vert. Sects. 31, 32.)

70. From Swan Bank near Alderley Edge across the Plain of Cheshire, the Coal Measures, Millstone Grit, and Carboniferous Limestone of Kerridge, Saltersford Valley, Tideswell, &c., to the Coal Measures West of Dronfield, Derbyshire. (1867.) [Illustrates 81 NW., NE., 82 NW.]

*71. From Nettlebed Hill, Oxfordshire on the South; to the Burton Dassett Hills, Worcestershire, on the North. (1867.) [Illustrates Maps 13, 45 SE., SW., NW.]

*72. No. 1. continuation of Sheet 71.

No. 2. From Lambourn Downs, Berkshire, on the South; to Parsonage Farm, near Kencott, Gloucestershire, on the North. (1867.) Illustrate Maps, 13, 34, 44, 45 NW., and 53 SW.

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Sheet

73. From the Middle Eocene strata at Selsea Bill, Sussex, to the Bagshot Sands of Chobham Ridges, Surrey; across the Wealds of West Sussex and Surrey, and the Cretaceous beds of the South-and the North Downs: to show the relation between the Tertiary Basins of Hampshire and London. (1868.) [Illustrates Maps 8 and 9.]

74. From Chobham Ridges, in Surrey, through Virginia Water, Windsor, Stoke Poges, Hedgerly, Beaconsfield, and Ellesborough to Bishopstone, in Bucks; across the Bagshot Beds, London Clay, Reading Beds, Chalk, Upper Greensand and Gault to the Lower Greensand. (1868.) [Illustrates Maps 7, 8, and 46 SW.] Continuation of Section, Sheet 73.

75. From the Chalk, west of Worthing, Sussex; across the Weald, the Lower Greensand of Leith Hill, the Upper Cretaceous beds near Dorking and Leatherhead, the Eocene formation between Fetcham and Esher, and the Gravel and Alluvium of the Valley of the Thames, to Hampton, Middlesex. (1867.) [Illustrates Maps 8 and 9.]

76. From the coast of Sussex, east of Kemp Town, near Brighton, across the Chalk of the South Downs, the Wealds of West Sussex and Surrey, to the Chalk of the North Downs, NE. of Merstham, Surrey; showing the Upper and Lower Cretaceous and Wealden beds. (1867.) [Illustrates Maps 8 and 9.] Joins, 79.

77. From the Lower Eocene strata and the Chalk, west of Newhaven Harbour, in Sussex, across the Cretaceous strata of the South Downs, east of Lewes, the Wealds of Sussex and Kent, through Plashet Park, and near Little Horsted, Uckfield, Buxted, and Penshurst, to the Lower Greensand of Knole Park, and the Chalk of the North Downs at a ruined chapel two miles SE. of Farningham, Kent. (1867.) [Illustrates Maps 5 and 6.]

78. From the Chalk of the South Downs at Beachy Head, Sussex, to the Chalk of the North Downs near Boxley, North-east of Maidstone, Kent; across the Wealds of East Sussex and Kent, near Hailsham, Goudhurst, Marden, Linton, and Loose, showing the Cretaceous and the Wealden beds. (1867.) [Illustrates Maps 5 and 6.] Joins 84.

79. Across the London Basin; from Beddington (Surrey) on the South; through London (from Clapham Common to Hampstead), and Hendon, in Middlesex; and through Bedmont, to near Hemel Hempstead (Herts) on the North. (1868.) [Illustrates Maps 7, 8, and 46 SE. Continuation of 76.]

80. Section from the Middle Eocene strata on the sea-coast, west of Browndown, near Gosport in Hampshire, across the Chalk of Bishops Waltham, East Stratton, Overton, White Hill, and Kingsclere (dividing the Tertiary Basins of Hampshire and London), the western end of the Hampshire basin by Itchingswell, over Crockham Heath, Coldash Common, Grimsbury Castle, and Furze Hill, the Chalk of Blewberry Plain; the Cretaceous and Oolitic strata by Upton, Didcot, Culham, Abingdon, Wytham Hill, NW. of Oxford, Blenheim Park, near Woodstock, Hook Norton, Tysoe Mill, and Oxhill, the Keuper Marl and Lower Sandstones between Morton Morrell, Warwick, and Leamington Priors: the Permian rocks and Coal-measures of the Warwickshire coalfield between Wilnecote and Polesworth, and ending in the New Red Marl SSE. of Arkhall in Staffordshire (NE. of Tamworth). (1870.) [Illustrates Maps 11 and 12.]

81. From the Solent, near Gosport in Hampshire, to White Hill, near Kingsclere. Continuation of Sheet 80.
From White Hill in Hampshire to Pinsley Wood in Oxfordshire. (1870.) Illustrates Maps 12, 13, and 45 SW.

82. Continuation of Sheet 81. From Handborough in Oxfordshire to Milverton near Warwick. (1870.) [Illustrates Maps 45 NW., SW., 53 NW., SW.

83. Continuation of Sheet 82. From Leek Wootton near Warwick, to the River Anker near Tamworth. (1870.) [Illustrates Maps 53 NW., 63 SW., 62 NE., SE.]

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84. Continuation of Sheet 78. Section across the London Basin from the North Downs near Boxley, Kent, across the Medway, the Hundred of Hoo, and the Thames, through Hadleigh Castle and Rayleigh, across the River Crouch, and through Danbury to the River Chelmer, half a mile east of Little Baddow in Essex. (1871.) [Illustrates Maps 1 NE., SE., 6. Continued in No. 126.]

85. No. 1. From Hambledon Hill across the Burnley Basin and the Ribble Valley, to the river Hodder in the Forest of Bolland. Showing Trias, Permian, Coal Measures, Millstone Grit, and Yoredale series.
Section 2. From Black Hambledon through Cliviger and Burnley across Pendle and the River Ribble to the River Hodder at Slaidburn, Yorkshire. (1871.) [Illustrate Maps 88 NW., 89 NE., 91 SE. 92 NW., SW., one-inch. 47, 48, 55, 56, 63, 64, 65, Lancashire, six-inch. 164, 165, 181, 182, 198, 229, Yorkshire, six-inch.]

86. Section 1. From the River Ribble in Lancashire on the north-west, by Hutton, Longton, Euxton, Coppull, Adlington, and Blackrod to Aspull on the south-east, showing Triassic and Carboniferous Rocks.
Section 2. From Goosnargh on the north-west to Harwich Moor on the south-east, showing Triassic, Permian, and Carboniferous Rocks. (1872.) [Illustrate Maps 91 SE., 89 NW., NE., SW., SE., one-inch. 53, 60, 61, 68, 69, 70, 76, 77, 78, 85, 86, 94, Lancashire, six-inch.

87. Section from Bull Hill, Haslingden, to Morecambe Bay, across the Blackburn Coal basin and the Fylde of Lancashire, showing Carboniferous and Permian formations. (1872.) [Illustrating parts of 89 NE., NW., and 91 NE., SE., one-inch, and 34, 39, 44, 45, 53, 61, 62, 70, 71, Lancashire, six-inch.

*88. Section across the valley of the River Don between Sheffield and Conisborough. (1873.) [Illustrating parts of 82 NW., NE., 87 SW., SE., one-inch; and 283, 284, 288, 289, 290, 295, Yorkshire, six-inch. [Vert. Sects., 30, 31, 32.]

*89. Section across the Yorkshire Coalfield, from the N.W. of Sheffield by Ecclesfield, Wentworth, Wath, and Bolton-on-Dearne, and through the Permian and Triassic Beds of Marr, Owston, Askern, Pollington, Snaith, Carlton, and Barlow. (1873.) [Illustrating 82 NW. and 87 SW., SE., and NE. one-inch. 236, 237, 251, 264, 265, 276, 283, 288, 289, 293 294, Yorkshire, six-inch. Vertical Sections, Sheets 32 and 35.

*90. Section from the Millstone Grit of Ughill and Bradfield Moors, west of Sheffield, across the Yorkshire Coalfield by Wharncliffe, Tankersley, Hoyland, Wombwell, Houghton Common, South Kirkby, and Upton; thence through the Permian and Triassic Beds of Wentbridge, Womersley, Kellington, and Brayton to the environs of Selby. (1873.) [Illustrating 82 NW., 87 SW., NW., NE., and 93 SE., one-inch, and 221, 235, 236, 250, 263, 264, 275, 282, 283, 287, 288, 293, Yorkshire, six-inch. Vert. Sects., 31, 32, and 35.

*91. From the upper part of the valley of the river Derwent to the centre of the Yorkshire Coalfield, across the Yoredale Rocks and Millstone Grit of Broomhead and Whitwell Moors, the Lower Coal Measures of Stocksbridge and Wortley, the Middle Coal Measures of Stainborough, Darley Dale, Ardsley, and Houghton, and terminating on Houghton Common. (1875.) [Illustrating 81 NE., 87 SW., 87 NW., and 88 SE., one-inch scale; 234, 248, 249, 262, 273, 274, 275, 281, 282, and 287, six-inch scale, Yorkshire. Vert. Sects., 35, 36, 37, and 38.]

*92. Section from the Millstone Grit of Howden Moors, across the Yorkshire Coalfield by Penistone, Silkstone, the north of Barnsley, Ackworth, and Pontefract, and thence over Permian and Triassic Rocks by Byram, Gateforth, and Brayton to the outskirts of Selby. (1873.) [Illustrating 87 NE., NW., SW., and 88 SE., one-inch. 220, 221, 234, 235, 249, 262, 263, 273, 274, 280, 281, Yorkshire. Vert. Sects., 30, 31, 32, 35, 36.]

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*93. Section from the northern end of the Saddleworth Valley, on the borders of Lancashire and Yorkshire, over the Yoredale Rocks and Millstone Grit of the Pennine Anticlinal, across the Yorkshire Coalfield by Meltham, Honley, Farnley Tyas, Kirkburton, Flockton Moor, Heath near Wakefield, Sharlston, terminating on the Magnesian Limestone north of Pontefract. (1873.) [Illustrating 88 SW., SE., NE., 87 NW., one-inch; 234, 247, 248, 249, 259, 260, 261, 271, Yorkshire. Vert. Sects., 35, 36, 37, 40, 42.]

*94. Section from the Millstone Grit at Marsden, Slaithwaite, and Linthwaite, west of Huddersfield over the Lower Coal Measures of Huddersfield and Kirkheaton; the Middle Coal Measures of Lower Whitley, Thornhill, Ossett, Alverthorpe, Wakefield Outwood, Stanley, Methley Park, Great Preston and Kippax; and the Magnesian Limestone of Kippax, Micklefield, and Scarthingwell; to the Warp Flat of the Valley of the River Wharfe at Ulleskelf and the Bunter Sandstone of Bolton Percy. (1873.) [Illustrating Maps 88 SE., NE., 87 NW., 93 SW., one-inch scale, 190, 205, 219, 220, 233, 234, 246, 247, 248, 259, 260, Yorks., six-inch scale. Vert. Sects., 35, 37, 38, 40, 42, 43, and 45. Joins Horiz. Sects. 64. Crosses Horiz. Sects. 95, 96, 97, 98, 99, 100.]

*95. Section from the north-western corner of the Yorkshire Coalfield south of Bingley, across the Lower Coal Measures of Nor Hill, Allerton, Great Horton, Wibsey, and Oakenshaw, near Bradford; the Middle Coal Measures of Cleckheaton, Liversedge, Liversedge Park, Mirfield, Thornhill, and Overton, near Dewsbury; Bretton, Woolley Edge, Carlton, Cudworth, Houghton Common, Low Moor, and Clayton in the Clay, near Barnsley; and thence over the Permian Rocks of Watchley Crag, Bilham, and Scawsby to the neighbourhood of Doncaster. (1875.) [Illustrating one-inch scale Maps 87 NW., SW., SE., 88 NE., 92 SE.; six-inch scale Maps 201, 216, 231, 232, 247, 248, 262, 263, 275, 276 (Yorkshire). Vert. Sects. 30, 35, 36, 37, 40, 42, 43. Crosses Horiz. Sects, 90, 90, 92, 93, 97, 101.]

*96. Section from the northern side of the Skipton Anticlinal to the middle of the Yorkshire Coalfield, crossing the Millstone Grit of Sheltercliff, ENE. of Skipton, the Yoredale Rocks and Carboniferous Limestone of Draughton, the Millstone Grit of Rumbles Moor, the outlier of Lower Coal Measures at Baildon, the Millstone Grit of Baildon Bank, the Lower Coal Measures of Eccleshill, Calverley Moor, Pudsey, Tong, and Gildersome, Gildersome Street, Bruntcliffe, Howley Park, Hanging Heaton, the neighbourhood of Dewsbury, Ossett, Horbury, Netherton, Grigglestone, Chapelthrope, Chevet, and the neighbourhood of Felkirk, NE. of Barnsley. (1876.) Illustrating 92 NE., 92 SE., 88 NE., 87 NW., and 87 SW., one-inch scale; 151, 168, 185, 186, 201, 202, 217, 232, 247, 248, 262, and 263, Yorkshire, six-inch scale. Vert. Sects., 37, 40, 43, 44, and 45.

*97. Section from the Valley of the Wharfe at Otley, over the Millstone Grit of the Chevin, the outlier of Lower Coal Measures at Rawdon, and the Milistone Grit of Horsforth and Bramley Fall; thence across the Yorkshire Coalfield by Bramley, Armley, Wortley, Beeston, Middleton, East Ardsley, the neighbourhood of Wakefield, Brierly, Houghton Common, and Denaby, to the Magnesian Limestone near Conisborough. (1875.) [Illustrating Maps 87 NW., SW., SE., 92 SE., 93 SW., one-inch scale; 187, 202, 217, 218, 233, 248, 249, 263, 275, 276, 284, six-inch scale. Vert. Sects., 30, 36, 37, 38, 40, 42, 43, 44. Crosses Horiz. Sects., 90, 91, 92, 95, 101. Meets Horiz. Sects., 91, 98, 100.

*98. Section across the Millstone Grit of Brimham Rocks, Hartwith Moor, Nabs Ridge, Briscoe Ridge, Great Alms Cliff, Wescoe Hill, Arthington Bank and Addle; the Lower Coal Measures of Chapel Allerton and Leeds; the Middle Coal Measures of Osmondthorpe; the inlier of Lower Coal Measures at White Bank; the Middle Coal Measures of Temple Newsam, Rothwell, Royds Green, Bottom Boat, Warmfield, and Sharlston, to the neighbourhood of Havercroft. (1876.) Illustrating Maps 87 NW.

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Sheet
92 NE., SE., 93 SW., one-inch scale; 136, 153, 170, 187, 188, 203, 218, 233, 234, 249, 263, Yorkshire, six-inch scale. Vert. Sects., 36, 37, 38, 40, 42, 44, 45. Crosses Horiz. Sects., 91, 93, 94, 101, 102. Meets Horiz. Sects., 92, 97, 100.

*99. Section from the Magnesian Limestone of Gybdykes, north-east of Masham, over the Millstone Grit of Mickley and Averley; thence across the Magnesian Limestone and Millstone Grit of the country west and south of Ripon; the Millstone Grit of Killinghall; the Millstone Grit and Yoredale Rocks of the Harrowgate anticlinal; the Millstone Grit of Follifoot Ridge, Spofforth Haggs, Barrowby Grange, the neighbourhood of Harewood, Wike, and Shadwell; the Magnesian Limestone of Ask Bank, near Roundhay Grange; the Lower Coal Measures of Seacroft; and the Middle Coal Measures of Austhorpe and Swillington, to the Alluvial Flat of the River Aire at Mickletown. (1876.) [Illustrating Maps 87 NW., 93 NW., SW., 96 SW., 97 SE., one-inch scale; 101, 118, 119, 137, 154, 171, 188, 203, 218, 219, 234, Yorkshire, six-inch scale. Vert. Sects., 44, 45. Crosses Horiz. Sects., 94, 101, 102.]

*100. Section from the neighbourhood of Boroughbridge to the centre of the Yorkshire Coalfield, crossing the Triassic Rocks south of Boroughbridge; the Permian Rocks of Knaresborough, Wetherby, Tadcaster, and Aberford; the Lower Coal Measures of Parlington Hollins; the Middle Coal Measures of Garforth and Kippax; the Magnesian Limestone of Preston Hill; and the Middle Coal Measures of Great and Little Preston, Methley, Whitwood, Sharlston, and Nostel. (1876.) [Illustrating Maps 87 NW., 93 NW., SW., one-inch scale; 138, 154, 155, 172, 189, 204, 219, 234, 249, 263, Yorkshire, six-inch scale. Vert. Sects., 38, 44, 46. Crosses Horiz. Sects., 91, 94, 99, 101. Meets Horiz Sects., 92, 97, 98.]

101. Section from the Millstone Grit of Blackstone Edge, near Todmorden, Greetland Moor, and North Dean, south of Halifax, over the Lower Coal Measures of Southowram, Brighouse, and Clifton; the Middle Coal Measures of Cleckheaton, Gomersal, Adwalton, and Gildersome; the Lower Coal Measures of Gildersome, Churwell, and Beeston; the Middle Coal Measures of Hunslet, Osmondthorpe, and Manston; the Lower Coal Measures of Scholes, and thence over the Magnesian Limestone of Barwick-in-Elmet, Bramham Moor, and Newton Kyme, to the Alluvial Flat of the River Wharfe. (1875.) [Illustrating Maps 87 NW., 88 NE., NW., 93 SW., one-inch scale; 188, 189, 190, 203, 204, 217, 218, 230, 231, 232, 244, 245, Yorkshire, six-inch scale. Vert. Sects., 35, 40, 42, 43, 44, 45. Joins Horiz. Sect., 66. Crosses Horiz. Sects., 95, 96, 98, 99.]

102. Section from Heptonstall Moors, north of Todmorden, across the Millstone Grit of the basin of the Calder; the outliers of the Lower Coal Measures at Denholme and Baildon; the Millstone Grit of Otley, Chevin, and Wharfedale; and the Yoredale Rocks of the Harrowgate anticlinal, on to the Magnesian Limestone of the neighbourhood of Knaresborough. (1874.) [Illustrating Maps 88 NW., 92 SE., 93 NW., one-inch scale; 154, 155, 170, 171, 186, 187, 200, 201, 214, 215, Yorkshire, six-inch scale. Crosses Horiz. Sects., 95, 96, 97. Meets Horiz. Sects., 62, 85.]

103. Section across the northern part of the Somersetshire Coalfield from Broadfield Down, by Chew Magna, Stanton Wick, Pensford, Marksbury, and Newton St. Loe, to Twerton, near Bath. [Illustrating One-inch Map 19, Vert Sect., 51.]

104. Section across the Somersetshire Coalfield from Chewton Mendip, by Farringdon Gurney, Paulton, Camerton, and Dunkerton, to Combe Down, near Bath. (1875.) [Illustrating One-inch Map 19; Vert. Sects., 49, 52.]

105. Section across the southern part of the Somersetshire Coalfield, from the Mendip Hills, near Binegar, by Stratton-on-the-Fosse, Midsummer Norton, Radstock, Clandown, Braysdown, and Foxcote, to Norton St. Phillip. (1875.) [Illustrating Sheet 19, One-inch scale, and Vert. Sects. 48, 52.]

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Sheet

106. From Nailsea, through Backwell Park, to Bedminster, passing south-east of Bristol to the Fish Ponds. (1875.) [Illustrating One-inch Maps, 19, and 35. Crosses Section, Sheet 17. Vert. Sects., 49, and 50.]

107. Section from Portskewet in Monmouthshire across the River Severn at New Passage, to Stoke Gifford in Gloucestershire; thence across the Bristol Coalfield to Westerleigh and Wapley. (1875.) [Illustrating One-inch, Map 35. Crosses Section 3, sheet 14.]

108. Section from Great Swinburn and Colwell, Northumberland, across the Carboniferous Limestone, Millstone Grit, and the Northumberland and Durham Coalfields, through Bingfield, Great Whittington, Halton Shields, Newton Hall, Bearl, Mickley, Hedly Woodside, Chopwell, Tanfield, Kibblesworth, Great Usworth, Hedworth, and Harton, thence across the Magnesian Limestone to the coast, three miles north of Whitburn. (1875.) [Illustrating Map 105 NW., SW., SE., and 106 NE. Six-inch 3, 4, 5, 6, 7, and 12, Durham; and 77, 85, 86, 95, and 96, Northumberland. Vert. Sects. 29, and 39.]

109.

110. Section from Byerhope Head, one mile east of Allenheads, across the Yoredale Rocks, the Millstone Grit, and the Durham Coal Field, through Hunstanworth, Derwent Lead Mines, Muggleswick, Healeyfield, Iveston, South Moor Colliery, Pelton Colliery, Lambton Park, South Biddick, and West Herrington; thence across the Magnesian Limestone, through Silksworth, Tunstall, and Ryhope Colliery, to the coast, three miles south of Sunderland. (1875.) [Illustrating Maps 102 NE., 103 NW., 105 SW., and SE., and 11, 12, 13, 14, 16, 17, and 18, Durham.]

111. Continued in sheet 112. Section across the Bristol Coalfield and the North part of the Somersetshire Coalfield, from Cromhall at the North, through Iron Acton, to Mangotsfield, (showing Frog Lane, Parkfield, and Fryars Pits,) through Warmley, to Willsbridge at the south of the Bristol Coalfield; thence to Keynsham and Compton Dando in Somersetshire. (1875.) [Illustrating One-inch Maps, 35 and 19. Vert. Sects., 49.]

112. Continued from sheet 111. Section across the Somersetshire Coalfield, Houndstreet on the north, through Farmborough, Timsbury, Clandown, Radstock, Kilmersdon, and Mills, crossing the east end of the Mendip Hills at Whatley, to Long Knoll near Maiden Bradley, being a continuation of Horizontal Section 111, thus completing the section north and south of the Bristol and Somersetshire Coalfield. (1875.) [Illustrating One-inch Map, 19. Vert. Sects., 49.]

113. Section No. 1. From the Carboniferous Limestone of Scalelands, Frizington, Cumberland, across the Skiddaw Slate of Blakeley Raise, the Grit of Lankrigg, the Syenitic Granite of Copeland Forest; the Volcanic Rocks of Buckbarrow, Wastdale, and the Screes; the Granite of Eskdale; and the Volcanic Rocks of Harter Fell, across the Duddon, north of Seathwaite.

No. 2. From the River Duddon at Black Dub, south of Hall Dunnerdale, across the Volcanic Series of Caw, and Long Bank, to the Coniston Limestone Series, Stockdale Slates, and Coniston Flags of Broughton Moor, Lancashire. (.) [Illustrating Sheets 101 S.W., 99 N.E., 98 N.W.; Cumberland Sheets, 68, 73, 74, 79, 83, 84; Lancashire 3, 4, Six-inch scale.]

114. Section from the Carboniferous Limestone near Scales Moor, across the Skiddaw Slate of Owsen Fell, Blake Fell, and Gavel Fell; the Syenitic Granite of Ennerdale, the Volcanic Rocks of Pillar and Kirk Fell; the Granite of Wastdale Head, and the Volcanic Rocks of Scafell Pikes, of the heads of Eskdale and Duddon Dale, Cumberland, Grey

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Friars, Coniston Old Man; and the Coniston Limestone, Stockdale Slates, Coniston Flags and Grits, to the Bannisdale Slates, east of Coniston Water, Lancashire. (1877.) [Illustrating Maps 98 NW., 101 SW., SE., One-inch scale. 62, 68, 69, 74, 79, 80, Cumberland; 1, 4, Lancashire, Six-inch scale.]

115. Section from the Carboniferous Limestone N. of Cockermouth, through the Skiddaw Slate series of Elva Hill, Ling Fell, Whinlatter, Grisedale and Causey Pikes, and the Volcanic Series of Borrowdale, the Plumbago Mines, the Volcanic Rocks of Base Brown, Allen Crags, Bow Fell, Pike of Bliscoe, Wrynose, and Wetherlam, to the Coniston Limestone (Lower Silurian), and through the Coniston Flags and Grits and Bannisdale Slates (Upper Silurian) SE. of Coniston Lake. (1877.) [Illustrates Maps 98 NW., 101 NE. SE., One-inch scale. 46, 55, 63, 64, 70, 74, 75, 80, Cumberland; 25, Westmorland; 1, 4, 5, Lancashire, Six-inch scale.]

116. Section from the Carboniferous Limestone, 1½ miles E. of Uldale, across the northern margin of the Volcanic Rocks; through the Slate and Grit beds of Great Cockup; the Metamorphosed Slate of Skiddaw; the Dolerite of Castle Head, Keswick; the Volcanic Series of Wallow Crag, Bleaberry and Watenlath Fells, Ullscarf, Cumberland; Great and Little Langdale, Westmorland; to the Coniston Limestone, Stockdale Slates, and Coniston Flags near Water Head House, Coniston, Lancashire. (1877.) [Illustrates Maps 98 NW., 101 NE., SE., One-inch scale, 47, 56, 64, 70, 75, Cumberland; 18, 25, Westmorland; 1, 2, Lancashire, Six-inch scale.]

117. Section from the Carboniferous Limestone, 2½ miles SW. of Caldbeck, across the Volcanic Rocks north of the Roughton Gill Mines, the Granite and Metamorphic Rocks of Skiddaw Forest, the Skiddaw Slates of Blencathra, the Quartz-Felsite of the Vale of St. John, and the Volcanic Series of the Helvellyn range, of Grasmere, Rydal, and Loughrigg, to the Coniston Limestone and the Coniston Flags and Grits, west of Windermere Lake. (1877.) [Illustrating Maps 98 NW., 101 NE. and S.E., One-inch scale. 47, 56, 65, 71, 76, Cumberland; 12, 19, 26, Westmorland; 2, Lancashire, Six-inch scale.

118. Section from the Carboniferous Limestone South of Hesket-Newmarket, Cumberland, through the northern fringe of Volcanic Rocks Carrock Fell, the Skiddaw Slate of Mungrisdale, the Upper Old Red Conglomerate of Mell Fell, the Volcanic Rocks of Gowbarrow, the Skiddaw Slates of Ullswater; and the Volcanic Rocks of Martindale Common, Caudale Moor, and Ill Bell, to the Coniston Limestone, Stockdale Shales, and Coniston Flags of Kentmere Park, Westmorland. (1877.) [Illustrating Maps 98 NE., 102 SE., SW., 101 NE., One-inch scale. 48, 57, 65, Cumberland; 12, 19, 20, 27, Westmorland, Six-inch scale.]

119. Section from the Carboniferous Limestone of Penruddock, Cumberland, across the Carboniferous Basement Conglomerate of Little Mell Fell, the Skiddaw Slates and Volcanic Series north and south of Ullswater, the Granite and altered rocks of Shap Fells, the Coniston Flags and Grits and Bannisdale Slates of Borrowdale and Whinfell, the Carboniferous Limestone of Greyrigg, to the Upper Ludlow Rocks of Lambrigg Fell, Westmorland. (1881.) [Illustrating parts of 98 NE. and 102 SW., and Six-inch maps 58 and 66 Cumberland, and 7, 13, 20, 27, 28, and 34 Westmorland.]

120. Section of the London Basin from South to North; from the Chalk, SE. of Farningham, Kent, across the Tertiary Outlier of Swanscomb Park Wood and the Valley of the Thames below Greenhithe; through Essex, from West Thurrock, across the Bagshot Outlier of Warley Common, the Valley of the Roding, Epping Plain, and the Valley of the Stort above Roydon, into Hertfordshire, to the outcrop of the Chalk in the Valley of the Ash at Widford. (1871.) [Illustrates Maps 1 NW., SW., 6, 47.]

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Sheet

121. (Continuation of Sheet 120). Across the Chalk of Hertfordshire, the Gault and Lower Greensand of Bedfordshire to the Oxford Clay near Kimbolton. (1878.) [Illustrates Maps 46 SE., NE., 47, 52 NE., SE.]

122. Section across the Oolites and Lias from Three Shire Stone, through Thrapstone, Rockingham Forest, Uppingham, Burrow Hill, to the River Eye, west of Melton Mowbray. (1879.) [Illustrating Sheets 52 NE., 52 NW., and 64.

123. No. 1. From Dodgson's Wood on the east side of Coniston Water to Morecambe Bay, near Grange, Lancashire. Continued from Sheet 114.

No. 2. From the River Duddon, near Whinery Grounds, north of Broughton-in-Furness, to the Ulverston Sands, near Plumpton Wells, Lancashire.

No. 3. From near Bootle over Black-Combe to Hodbarrow Point, Cumberland; thence across the Duddon Sands to Titcup Hall, west of Lindale, Lancashire. (1879.) [Illustrate 98 NW., SW., and Six-inch, 4, 6, 7, 8, 11, 12, 15, 16, 17, Lancashire; and 85, 86, 88, 90, Cumberland.]

124. Section from Buddon Wood across Mount Sorrel, Burrow Hill (Leicestershire), to the Vale of Catmos, through Oakham and Ketton (Rutland). (1883.) [Illustrates 63 NE., 64. Continued from 46, No. 2. Crosses No. 1., Sheet 122.]

125. Section north-westward from the Chalk south of Dunstable, across the Gault, the Low Greensand, the Oxford Clay, the Lower Oolites, and the Lias, past Woburn, Newport Pagnell, to beyond Mears Ashby. (1881.) [Illustrating Maps 46 SE., SW., and NW., and 52 SW. and NW.]

126. Section across the Tertiary Beds and the Chalk of the London Basin, from the River Chelmer (four miles below Chelmsford), by Felsted, Radwinter, Barrington Hill, and Wandlesbury, to the Gault at Cambridge and Madingley Park. (1882.) [Illustrates 1 NE., 47 and 51 SW.] Continuation of Sheet 84.

127. The Norfolk Cliffs from Happisburgh, through Bacton, Mundesley, Trimingham, Sidestrand, Overstrand, Cromer, Runton, Beeston, and Sherringham, to Weybourn. (Scale, 18 inches to the mile.) (1882.) [Illustrates 68 NW. E.]

128. The Norfolk Cliffs of Kessingland and Corlin. (In preparation.)

129. From the Outlier of Lower Coal Measures on Baildon Common on the south, across the Millstone Grit of Rumbles Moor, Ilkley, and Wharfedale, over Beamsley Beacon and Simonseat, and across the Carboniferous Limestone west of Greeenhow Hill, the Craven Fault, the Millstone Grit of Grimwith, Gateup Gill, Mossdale and Conistone Moor, over the Top of Great Whernside, across the Yoredale Rocks and Millstone Grit of Coverhead, Walden, and Bishopdale; the Yoredale Rocks of Stake Fell and Addleboro' to Wensleydale on the North. (1882.) [Illustrates One inch-maps 97 SW., SE., 92 NE., SE. Six-inch Maps, 66, 82, 83, 99, 116, 134, 151, 152, 169, 186, 201, Yorkshire.]

130. Near the Yorkshire Coast, from the Lower Lias at Staithes, through the Lias and Oolites of Whitby, Robin Hood's Bay; the Oolites of Silphs and Hutton Bushell Moor, across the Vale of Pickering to the Chalk of Willerby Wold. (1883.) [Illustrates 95 SW., NW., 104 SE., SW., and Six-inch Maps, 19, 20, 32, 33, 47, 62, 77, 93, 109, Yorks. Crosses Sections 135 and 137.]

131. Section from the Yorkshire Coast at Redcar, across the Ironstone Measures of Upleatham, and the Lower Oolites of Skelton, Stanghow, and Danby, with the Outliers of Kellaway's Rock at Freeborough Hill and Danby Beacon; thence across the Valley of the Esk, and the Lower Oolites of Egton and Pickering Moors, to the Middle Oolites of Lewisham, Kingthorpe, and Thornton Dale, and across the Vale of Pickering to the Chalk of Knapton. (1883.) [Illustrates One-inch Maps 104 SW., 96 NE., 96 SE., 95 SW., and Six-inch, Yorkshire, 7A, 7, 17, 18, 30, 31, 45, 60, 75, 91, 92, 108, 125. Crosses Horiz. Sects., 134, 135, 136, 137.]

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Sheet

132. Section from the Estuary of the Tees at Middlesborough across the Ironstone Measures and Lower Oolites of Eston, Roseberry, Topping, and Easby Moor, the Lias of Ingleby, Greenhow, the Oolites of Helmsley and Rievaulx, and the Howardian Hills to the Lias at Brandsley and Stillington. (1883.) [Illustrates One-inch Maps 93 NE., 96 SE., 103 SE., 104 SW., and Six-inch, Yorkshire, 6, 16, 17, 29, 43, 58, 73, 89, 105, 122, 140. Crosses Horiz. Sects., 134, 135, 136, 138.]

133.

134. Section from Codbeck, east of Northallerton, across the Lias and Lower Oolite of Over Stilton, the Middle Oolite of Black Hambleton, and the Lower Oolite and Lias of Snilesworth Moor, Bilsdale, Bransdale, Farndale, and Rosedale; thence across Egton High Moor, the Murk Esk, Sleights Moor, and Sneaton, to the Coast at Hawksker Bottoms, south of Whitby. (1883.) Illustrates One-inch Maps, 95 NW., 96 NE., 96 NW., Six-inch Yorks., 32, 33, 45, 46, 56, 57, 58, 59, 60, 71. Crosses Horiz. Sects., 130, 131, 132, 133.

135.

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VERTICAL SECTIONS.

Illustrative of the Horizontal Sections and Maps of the Geological Survey of England and Wales.

These Sections, drawn to a vertical scale of 40 ft. to an inch, are arranged in the form of columns, and illustrate such details as it is impossible to give in the Horizontal Sections.

In the Coal Measure Sections, the thickness of each bed of coal, the mineral structure and thickness of the strata with which they are associated, the nature and amount of ironstone, are given in the greatest detail. Sheets 1 to 70, price 3*s.* 6*d.* each Sheet.

Sheet

1. Section at Moreb, Pembray, Trim Saran, Cil Rhedyn, and Mynydd Garreg to the bottom of the Mountain Limestone, Crom Caer Cefn, [Horiz. Sects., 7, No. 1. Map 37.]

2. The Coal Measures at Llwchwr and Penclawdd, Glamorgan. [Horiz. Sects., 7, No. 3. Maps 37, 41.]

3.—1. From Werndu Seam of Coal to the two-feet Seam below the Big-Seam, Cwm Afon. 2. At Brondine, Pont Yates, Maensant, and Yr Hengoed. [Horiz Sects., 7, No. 2. Map 37, 41.]

4.—1. Lower Coal Measures, north crop, near Llandibie, Caermarthen. 2. Lower Coal Measures, North Crop, at Cwm Twrch, near Ystradgynlas, Brecknock. 3. Forest-fach Level, Cwm Gwendraeth. 4. Section showing the Black Band Ironstone at the Cambrian Iron and Spelter Works, Glamorgan. 5. The Coal Measures at Lansamlet, near Swansea. 6. The Coal Measures at Bryn Coch Dyffryn, Neath, Glamorgan. [Maps 36, 37, and 41.

5. The South Welsh Coal Measures from Penllergare, Glamorgan, to the north crop, near Tair Carn and Pant-y-gwastad, Caermarthen. [Maps 37, 38, and 41.]

6. The Coal Measures from Penllergare to Bishopston, near Swansea, Glamorgan. [Horiz. Sects., 9, No. 1. Map 37.]

7.—1. The Coal Measures at Llangeinor, Glamorgan. [Horiz. Sects., 10, No. 1, 2, and 3. Map 36.]—2. The Coal Measures, Mountain Limestone, and part of the Old Red Sandstone of the Forest of Dean, Gloucester. [Horiz. Sects., 12, No. 1, and 15, No. 2. Map 43.]

8. The Coal Measures in South Wales and Monmouth. 1. Merthyr Tydfil District. 2. Ebbw Vale. 3. Cwmtelery. 4. Pont-y-pool District. 5. Risca. [Maps 36 and 42, SW. & SE.]

9. The Lower or Ironstone Coal-Measures in Glamorgan and Monmouth, illustrative of their decrease from Aberdare eastward to Abersychan. [Maps 36 and 42 SW. and SE.

10. Diagram, illustrating the variation of the principal Coal Seams in their range from Merthyr Tydfil to Pont-y-pool on the North Crop of the Coalfield of South Wales. The Vertical Columns represent the modifications of equivalent Beds in the different localities, each line showing the varied mode of occurrence of some well-known seams of coal in such localities. [Map 36 and 42 SW. and SE.] Scale, 3 feet to an inch.

11. The Coal Measures, Carboniferous Limestone, and a portion of the Old Red Sandstone, in the vicinity of Bristol. [Horiz. Sect., 14, No. 3. New Edition. Maps 19, 35.]

12. Sections illustrative of the passage of the Old Red Sandstone into the Carboniferous Limestone in South Wales and South-western England, viz. at West Angle, Skrinkle Haven, and Caldy Island, Pembroke; Clydach, Monmouth; Dean Forest; Clifton, Bristol; and Mendip Hills, Somerset. [Maps 19, 35, 38, 42, SE., and 43 SE.]

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Sheet

13. The Silurian Rocks. 1. The Old Red Sandstone and Silurian Rocks from West Dale Point, Pembroke, northwards to Marloes Bay. 2. From Gateholme Island to Wooltack Park, Pembroke. 3. Through the Lower Silurian strata, near Llandewi Velfry, in Caermarthen, to illustrate the Horizontal Section, Sheet 2, Section 1.—4. Through the lower part of the Old Red Sandstone to the Limestone of Clog-y-fran, near Llandowror, Caermarthen, to illustrate the Horizontal Section, Sheet 2, Section 3.—5. The Flagstone Series at Mydrim, North of St. Clares, in Caermarthen. Horiz. Sects., 2, No. 5. Maps 38, 40, 41.

14. The Silurian Rocks. 1. Through the Tilestones and the Upper and the Lower Silurian Strata at Golden Grove, near Llandeilo, Caermarthen, to illustrate the Horiz. Sects., 3, No. 2.—2. Through the Tilestones and the Upper and the Lower Silurian Strata in the Bed of the Sawdde River, near Llangadoc, Caermarthen. [Map 41. Horiz. Sects., 3, No. 3.]

15. The Silurian Rocks. 1. Through the Silurian strata of May Hill, Gloucester, to illustrate Horiz. Sects., 13, No. 1.—2. From the Old Red Sandstone, through the Silurian strata of Woolhope, in Hereford, Horiz. Sects., 13, No. 2.—3. From the Old Red Sandstone to the Syenitic rocks of the Malvern Hills. [Maps 43 NE., SE., NW. Horiz. Sects., 13, No. 8.]

16. Sections in the South Staffordshire Coalfield—1. Brereton, near Rugely. 2. Hammerwich Colliery, near East end of Norton Reservoir, Cannock Chase. 3. Wyrley District: upper part, from Waterloo Colliery; Middle part, from Church Bridge Colliery; lower part, from a boring near Great Wyrley. 4. Trial pits near Aldridge. 5. Harrison's Water-Engine Pit, Brown Hills Colliery, Cannock Chase. 6. Bentley District. 7. Ryecroft Colliery, near Walsall. 8. Ettingshall Lodge, near Wolverhampton. 9. Chillington Colliery, near Wolverhampton. 10. Two pits in the Priestfields Colliery. 11. Trentham Colliery, near Willenhall. 12. Tipton Green Colliery. 13. Bagnall's Limestone Pits, near Dudley Port. (1853.) [Map 62 NW., SW. Horiz. Sects., 23.]

17. The same, continued.—14. Burnt Tree and Coneygrey Pits, East of Dudley. 15. Great Bridge Colliery, near Westbromwich. 16. The Lyng Colliery, near Westbromwich. 17. Lord Dartmouth Heath Pits, Westbromwich, from Murchison's Silurian System, with additions and a plan of the headings. 18. Birchyfield Colliery, between Oldbury and Rowley Regis. 19. Oakfarm Colliery, near Himley. 20. Section South of Park Field Furnace, near Wolverhampton. 21. Section of the Trial Pit at Sedgley Hall Farm. 22. Section at Tintam Abbey Fire-clay Works, near Stourbridge. (1853.) [Map 62 SW. Horiz. Sects., 24.]

18. The same, continued.—23. Barrow Hill Colliery, with part below Sulphur Coal added from the Graveyards Trial Pits, near Lower Gornal. 24. Corbyn's Hall Colliery, with Mr. Gibbons' Level Colliery added below, from Murchison's Silurian System. 25. Old Lion Colliery, South-west of Rowley Regis. 26. Blackheath Colliery, South of Rowley Regis. 27. Boring at Smethwick, near the "Ruck of Stones." 28. Section of the Bullock Farm Pits, near Spon Lane, Westbromwich. 29. Dudley Brothers' Colliery, between Bloxwich and the New Invention. 30. Monmore Colliery, half a mile NNE. of Willenhall. 31. Section at Shut End Colliery, near Kingswinford. 32. The Walling Pits, South of Stow Heath Lane, between Bilston and Wolverhampton. 33. Section of the Black Delf, South of Brierley Hill. 34. Pit sunk at Tividale, near Dudley, in 1797. 35. Bank Colliery, Wordesley. 36. Trial Pit at Shaver's End, near Dudley. 37. Section near Cann Lane, East of Sedgley. (1853.) [Map 62 SW.] *See* Vert. Sect., 26.

19. Leicestershire Coalfield (Ashby-de-la-Zouch), Eastern or Coleorton District. 1. Bagworth Colliery. 2. Ibstock Colliery. 3 and 4. Snibston Colliery. 5. Whitwick Colliery. 6. Heather Colliery. 7. Swannington New Colliery. 8. Peggs Green Colliery. 9. Coleorton Colliery. 10. Lount Colliery. 11. Heath End Colliery. 12. Boring at Rough Park Wood. 13. Clay Pit at Woodville; with an explanation of local mineral terms. (1856.) [Map 63 NW., 71 SW. Horiz. Sects., 46, 48, 52.]

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Sheet

20. Leicestershire Coalfield (Ashby-de-la-Zouch), Western or Moira District. 1. Donnisthorpe Colliery. 2. Oakthorpe New Colliery. 3, 4, 5. Moira Colliery. 6. Woodfield Colliery. 7. Granville Colliery. 8. Boring at Old Swadlincote Colliery. 9. Gresley Common Colliery. 10. Gresley Wood Colliery. 11. Arthcote Colliery. 12. Whitehouse Colliery. 13. New Stanton Colliery; with an explanation of local mineral terms. (1857.) [Map 63 NW., 71 SW. Horiz. Sects., 46, 49, 52.]

21. Warwickshire Coalfield. 1. Glascote Colliery. 2. Wilnecote Colliery 3. Kettlebrook Colliery. 4. Polesworth Colliery. 5. Wyken Colliery near Coventry; Inge's Old Works. 6. Baddesley Colliery (Speedwel Pit). 7. Pit sunk at Merevale to the Bench Coal. 8. Boring at Merevale beneath the Bench Coal. 9. Stratford Colliery, Baxterley. 10. Section of Coals in the Hawksbury Colliery. 11. Haunchwood Colliery, Nuneaton. 12. Bedworth Colliery. 13. Hawksbury Colliery, near Bedworth. 14. Exhall Colliery, near Coventry; with an explanation of the local names of strata. (1857.) [Maps, 62 NE. and 63 SW. Horiz. Sects., 48.]

22. Comparative Sections of the Purbeck Strata of Dorset. 1. Durlston Bay 2. Worbarrow Bay. 3. Mewps Bay. 4. Ridgway Hill, railway cutting (1857.) Maps 16 and 17. Horiz. Sects., 20, 56.]

23. Sections illustrative of the Coal Measures in the vicinity of Coalbrook Dale, Shropshire; Gaughley, Hills Lane Shaft, Brosley; Madeley Court, Deepfield Pit, near Dawley; Portley Pit, Dawley; Pudley-Hill Pit; Lawn Pit, Malinslee; Rickyard Pit, Priorslee; Nelson Pit, Priorslee; Donnington; Horsehays; Lawley and Steeraway. Map 61 NE.

24. Sections illustrative of the Coal Measures between Sweeney Mountain, near Oswestry, Shropshire, and Brymbo, on the North-west of Wrexham, Denbighshire, Ireland and Co. Colliery, near Oswestry; Old Gronwen Works; No. 8 Shaft, Dryll Colliery; No. 5 Shaft, Pen-y-lan; Crosswithing New Shaft; No. 56 Shaft, Trefar Clawdod; No. 1 Shaft, Black Park; Newbridge and Agrefair, Ward's Colliery, Cefn Mawr; vicinity of Gardden Hall; Bron Colliery, near Wrexham; Brymbo Iron Works. Map 74 NE., SE.

25. Comparative Sections illustrative of the Upper, Middle, and Lower Eocene Strata of the Isle of Wight. (1858.) [Map 10. Scale, 20 feet to 1 inch.]

26. Section in the South Staffordshire Coalfield, continued.—38. Essington Colliery, Mr. Mill's Engine Pit. 39. Mr. Gilpin's Pit, between Church Bridge and Wyrley Bank, with another Pit at Highfields, a little further South, containing Measures below the Bottom Coal. 40. Pit a little North of Deepmore Coppice, near Bentley. 41. Cathedral Colliery, near the Brown Hill's Deep or Water Engine Pit. 42. Conduit Colliery, near Brown Hills. 43. Pelsall Wood Engine, Messrs. Davis and Bloomer, Pit No. 3, as far as the Deep Coal; Haddock's Moor Pit, for the Measures below the Deep Coal. 44. Coppy Hall Colliery, at Stubbock's Green, near Walsall Wood. 45. Victory Engine Shaft, Bentley, just North of Bentley Heath Furnace. 46. Pit at High Bridge, Pelsall. 47. New Pits at Ramrod Hall, a little east of Rowley Regis. 48. Round Hill Colliery, near Himley, No. 1 Pit. 49. Near Bromley Lane Colliery, near Kingswinford. 50. Sinking and boring at Goldthorn Hill, near Wolverhampton, in search of water. 51. Highfields, near Bilston. 52. Tividale Colliery, Pit No. 6, a little North of Coxe's Rough Quarry of Basalt. (1860.) [Map 62 NW., SW. Horiz. Sects., 45.]

27. Showing the succession of strata from the New Red Sandstone, through the Permian Rocks, Upper- Middle- and Lower Coal Measures, and Millstone Grit, down to the Limestone Shale, or Yoredale Rocks. (1861.) [Maps 80 NW., 89 SW.]

28. Sections of the Millstone Grit, Yoredale Beds and Carboniferous Limestone, of Grassington Moor and Kettlewell, Penyghent, Mossdale Mine, Providence Mine, Coalgroove Head, Brunts' Moss, Sarah, Ringleton, New Peru, Cottingham. (1874.) [Maps 92 NE., 97 SW., SE.; Yorkshire, six-inch scale, 97, 116, 134.]

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Sheet

29. Pit Sections of the Northumberland and Durham Coal Field, Tyne District. 1. Wallsend Colliery. 2. Backworth Colliery. 3. Gosforth Colliery. 4. Hartley Colliery. 5. Bebside Colliery. 6. Montague Main Colliery. 7. Walbottle Colliery. 8. Montague Main Colliery, South of the 90-fathoms Dyke. 9. Towneley Colliery. (1868.) [Maps 105 NE., NW., SW., Northumberland, Six-inch scale, 73, 81, 88, 89, 97, 98, Durham, 1–2.]

30. Sections to illustrate the strata above the Barnsley Coal in the Southern part of the Yorkshire Coalfield. 1. Shireoaks. 2. Kiveton Park. 3. Holmes. 4. Thryberg Hall. 5. Swinton Park Gate. 6. Albany and Royal Oak. 7. Denaby Main. 8. Oaks. 9. Carlton Borings. (1868.) [Maps 82 NE., NW., 87 SW., SE. Horiz. Sects., 92, 95.]

31. Southern part of the Yorkshire Coalfield. Sections to illustrate the Strata above the Barnsley Coal, in continuation of Vertical Sections, Sheet 30. 1. Norwood. 2. Aston. 3. Fence. 4. Orgreave. 5. Tinsley Park. 6. Pit at Rawmarsh. 6a. Boring at Rawmarsh. 7. Rainborough Pit. 8. Lund Hill. 9. Wombwell Main. 10. Part of a boring at Swaithe. Swaithe Main. 11. Pinder Oaks. 12. Mount Osborne. 13. Burton Bank. 14. Gawber New. (1869.) [Maps 82 NW. and 87 SW., (Yorkshire) six-inch scale, 274, 275, 283, 289, 295, 299, 300. Horiz. Sects., 69, 90, & 92.]

32. South Yorkshire Coalfield. Sections to illustrate the Strata between the Barnsley and Silkstone Coals. 1. Renishaw Park. 2. Intake. 3. Nunnery New. 4. Pitsmoor. 5. Garrow Tree Hill. 5a. Winterhill Ironstone Pit. 6. Greaves. 6a. Boring at Bradgate. 7. Fenton's. 8. Thorncliffe. 9. Wharncliffe Silkstone. 10. New Sovereign. 11. Strafford Main. 12. Pit at Great Ings. 12a. Silkstone Fall. 13. Slack Hills. 13a. Church Lane. (1869.) Maps 82 NW. and 87 SW., 274, 282, 288, 289, 294, 295 (Yorkshire) six-inch scale. Horiz. Sects., 69, 89, 90, and 92.]

33. Lancashire Coalfield, containing Pit Sections. 1. Ardwick. 2. Bradford Colliery. 3. Norbury Colliery. 4. Glodwick Colliery. 5. Stand Lane Colliery. 6. Church Colliery. 7. Darwen. 8. Fulledge Colliery. 9. Cliviger Colliery. 10. Gawthorpe. 11. Northwood. (1869.) [Maps 81 NW., 88 SW., 89 NE., SE., and 92 SW., 56, 61, 63, 64, 70, 71, 95, 97, 104, Lancashire six-inch.]

34. Lancashire and Cheshire Coalfield, SE. District, containing Pit Sections. 1. Patricroft Colliery. 2. Worsley Colliery. 3. Pendlebury Colliery. 4. Dukinfield Colliery. (1870.) Maps 88 SW. and 89 SE.; and Six-inch, Lancashire, 95 and 105. Horiz. Sects., 65 and 66.

35. Yorkshire Coalfield (Lower Coal Measures of) between Penistone and Halifax, containing Pit Sections. 1. Hoyland, Swaine, Penistone, and Hazlehead. 2. Bagden, Lower Cumberworth, High Flats, and New Mill. 3. Kirkburton, Highburton, and Mytholm Bridge. 4. Fenay Bridge and Huddersfield. 5. Brighouse and High Field Pit. 6. Norwood Green, Northowram, Halifax and Catherine Slack. (1869.) [Maps 88 SE. and NE., 216, 231, 246, 247, 260, 261, 272, 273, 274, 281 (Yorkshire) six-inch scale. Horiz. Sects. 89, 90, 92, 95.]

36. Yorkshire Coalfield; Sections of the Measures above the Barnsley Coal, in the district between Barnsley and Wakefield. 1. (*a.*) Railway cutting at Blacker Hill. (*b.*) East Gawber Colliery, Barnsley. 2. (*a.*) Bore-hole near Royston. (*b.*) Dearne Side Colliery. 3. (*a.*) Bore-hole near Chevet Lane. (*b.*) Woolley Coal Company's Wheatley Wood Pit. 4. Crigglestone Cliff Collieries. 5. (*a.*) Bore-hole in Hallas Field, near Wakefield. (*b.*) Lupset Colliery, Wakefield. (*c.*) Roundwood Colliery, Wakefield. 6. Manor Colliery, Wakefield. 7. Bore-hole on Heath Common. 8. St. John's Colliery, Newlands. 9. Snydale Colliery. 10. Featherstone Colliery. (1870.) [Maps 87 NW., SW., and 248, 249, 262, 274 (Yorkshire), six-inch scale. Horiz. Sects. 92, 95.]

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37. Yorkshire Coalfield; Sections of the Measures between the Barnsley and Silkstone Coals in the district between Barnsley and Wakefield. 1. (*a.*) Bore-hole at Gawber Hall Colliery. (*b.*) Higham Colliery. 2. (*a.*) Bore-hole at Briery Royds Colliery. (*b.*) Bore-hole at Darton. 3. Falconer Colliery. 4. (*a.*) Bore-hole near Snapethorpe. (*b.*)(*c.*) Bore-holes near Cawthorne. 5. Coals about West Clayton and High Hoyland. 6. Bore hole near Emley. 7. (*a.*) Bore-hole on Bretton Common. (*b.*) Sinkings and boring at Victoria Colliery, Netherton. 8. Hartley Bank Collieries. 9. Stanley Victoria Colliery. (For Measures above the Haigh Moor Coal see Sec. No. 5, Sheet 38.) 10. West Riding Colliery. (1870.) (For Measures above the Haigh Moor Coal see Sect. 6, Sheet 38.) [Maps 87 NW., SW., 233, 234, 248, 261, 262, 274 (Yorkshire), six-inch scale, 87 NW., SW., one-inch scale. Horiz. Sects. 95.]

38. Yorkshire Coalfield; Sections of the Measures above the Haigh Moor Coal, in the neighbourhood of Wakefield. 1. Bore Hole at Victoria Mill, Ossett. 2. Roundwood Colliery, Wakefield. 3. Manor Colliery, Wakefield. 4. (*a.*) St. John's Colliery, Wakefield. (*b.*) Newton Colliery, Wakefield. 5. Stanley Victoria Colliery. (For Measures below the Haigh Moor Coal see Sec. 9, Sheet 37.) 6. West Riding Colliery. (For Measures below the Haigh Moor Coal see Sec. 10, Sheet 37.) 7. Whitwood Collieries. (*a.*) Bore-hole at Loscoe. (*b.*) Bore-hole. 8. Wheldale Colliery, Castleford. 9. Newton Colliery, Castleford. 10. Coals about Glass Houghton. (1871.) [Maps 87 NW., 233, 234, 248, 249 (Yorkshire), six-inch scale.]

39. Sections of the strata between the High Main Coal and the Low Main Coal of the Tyne District or Hutton Coal of the Wear District, and between the Low Main or Hutton Coal, and the Busty and Brockwell Coals, taken from sinkings and borings in the North part of the Durham Coalfield. 2. Tyne Main Colliery (William Pit). Section from the High Main Coal to the Low Main Coal (Hutton Seam of the Wear district). 2. Team Colliery (Street Pit). Section from the High Main Coal to the Low Main Coal (Hutton Seam of the Wear district). 3. Dipton Colliery (Delight Pit). Section from the Shield Row Coal (High Main Coal of the Tyne) to the Main Coal (Hutton Seam of the Wear district). 4. Charlaw Colliery (Witton Pit). Section from the surface to the Hutton Seam. 5. Waldridge Fell Colliery. Section from the surface to the Hutton Seam. 6. Dryburn Grange Colliery. Section from the surface to the Hutton Coal Seam. 7. Edmondsley Colliery. Section from the Shield Row Coal (High Main Seam of the Tyne district) to the Hutton Seam. 8. Hetton Colliery. Section from the Three-Quarter Coal (High Main Seam of the Tyne district) to the Hutton Seam. 9. Seaton Colliery, near Seaham Harbour. Section from the Three-Quarter Coal (High Main Coal of the Tyne district) to the Hutton Seam. 10. Blaydon Main Colliery (Mary Pit). Section from the High Main Coal (Hutton Seam of the Wear district) to the Brockwell Coal. 11. Consett District. Section from the Main Coal (Hutton Seam of the Wear district) to the Brockwell Coal. 12. Dipton Colliery (Delight Pit). Section from the Main Coal (Hutton Seam of the Wear district) to the Busty Coal. 13. Lintz Colliery. Section from the Main Coal Seam (Hutton Seam of the Wear district) to the Brockwell Seam. 14. Marley Hill Colliery (Byer Moor Pit). Section from the Main Coal (Hutton Seam of the Wear district) to the Brockwell Coal. 15. Dryburn Grange Colliery. Section from the Hutton Coal Seam to the Busty Coal Seam. 16. Pelton Colliery near Chester-le-Street. Section showing the depths and thickness of the Busty Seam below the Hutton Seam. 17. Framwellgate Moor Colliery near Durham. Section from the Hutton Coal Seam to the Busty Coal Seam. 18. Seaton Colliery near Seaham Harbour. Section from the Hutton Coal Seam to the Busty Coal Seam. (1871.) [Maps 105 SW., SE., and 1, 2, 6, 7, 11, 12, 19, 20. Durham, six-inch.]

40. Sections to illustrate the strata between the Haigh Moor-and Blocking Coals in the District between Flockton and Leeds (Yorkshire). 1. Prince of Wales Pit, Flockton. 2. Engine Pit, Emroyd. (*a.*) Boring, Hostingley

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Sheet

Colliery. (*b.*) Hopton Mirfield. 3. Saville Pit, Dewsbury. (*a.*) Bore-Hole, No. 12, Soothill Estate. (*b.*) Boring, Northfield House, Dewsbury. (*c.*) Boring near Red Lathe, Mirfield. (*d.*) Boring, Jackey Wood, near Heckmondwike. (*e.*) Boring, Hazel Grove, Denby Grange. 4. Boring, Cross Bank Colliery, Batley. (*a.*) Boring, Carlinghow. 5. Muffatt Lane Pit, White Lee Colliery. (*a.*) Boring, Little Gomersall Colliery. (*b.*) West Pit, Gomersall. (*c.*) Boring, Wentworth Colliery, Birstall. (*d.*) Boring, West Yorkshire Colliery, Birstall. 6. Street Pit, Gildersome. 7. No. 2 Pit, Victoria Colliery, Bruntcliffe. 8. Morley Main Colliery. 9. Engine Pit, West Ardsley Colliery. 10. West Pit, Middleton Colliery. (*a.*) No. 2 Pit, Beeston Manor Colliery. 11. Boring, Simpson's Spring, East Ardsley. 12. Cousin's Pit, Rothwell Haigh. (*a.*) Bye Pit, Rothwell Haigh. (*b.*) Victoria Pit, Rothwell Haigh. 13. Boring, Swillington Bridge. (1871.) [Maps 87 NW., 88 NE., 261, 247, 232, 233, 218, 219 (Yorkshire), six-inch scale; Horiz. Sects. 95.]

41. Sections of the Northumberland Coal Field (Central Districts). 1. Fawdon Colliery, Engine Pit and Boring. 2. Plessay, Boring. 3. Seaton-burn Colliery. 4. Netherton Colliery, Francis Pit and Boring. 5. Hepscott Colliery, Boring. 6. Choppington Colliery, New Pit, Boring at West Choppington Farm (Strata below the Low Main). 7. Choppington Colliery, Anne Pit. 8. Bedlington Colliery, Engine Pit. 9. Cramlington Colliery, (East Hartford,) Scott Pit. 10. Cramlington Colliery, Amelia Pit. 11. Dudley Colliery. (1871.) [Maps 105 NW. and Six-inch Northd. 72, 80, 88.]

42. Yorkshire Coalfield. Sections of the Measures between the Blocking Bed-and Better Bed Coals between Huddersfield and Leeds. 1. Four Lane Ends, Addlecroft. 2. Boring at West side of Railway between Jill Lane and Tomroyds House. 3. Boring at bottom of Engine Pit, Dewsbury Moor. Strawberry Pit, Liversedge. (*a.*) Boring at Cleckheaton. 5. Green Lane Pit, Clifton. 6. High Moor Lane Pit, Clifton. 7. Well-sinking at Cleckheaton. (*a.*) Popplewell Pit, Scholes. (*b.*) Sinking at Popplewell. 8. Cleckheaton Engine Pit, Hunsworth Colliery. 9. No. 2 Pit. Hunsworth Colliery. 10. Westgate Hill, near Toll Bar. 11. No. 13 Pit, Broad-Oaks Colliery. 12. No. 4 Pit, Beeston Manor Colliery. (*a.*) Boring at Cross Flats, Beeston. 13. Engine-pit, Neville Hill Colliery. (1872.) [Maps 88 NE., 87 NW., 93 SW., and Horiz. Sects., 95; six-inch Yorks. 247, 231, 232, 217, and 218.]

43. Yorkshire Coalfield. Sections of the Measures between the Soft Coal and the Blocking Bed Coal in the Halifax, Bradford, and Leeds districts. 1. Boring, Mirfield. 2. Boring, Windy Bank. 3. Breaks Pit. (*a.*) Boring, near Breaks Pit. 4. First Mine Shaft, Lower Wike. 5. Upper Cow Close Pit, Wike. 6. Section in the Low Moor District. 7. Boring, Jaggar Park Wood, near Shelf. 8. Boring, Queenshead, near Bradford. (*a.*) Average Section in the Queenshead, Thornton, and Manningham Districts (principally from calculation). 9. Foot Road Pit, Parkside, West Bowling, near Bradford. 10. Bowling Iron Works. 11. Boring at Mr. Garnett's Mill, Bradford Moor. 12. No. 1 Pit, Tong. 13. Boring at Westgate Hill. 14. Charles Pit, Tong. (*a.*) Boring, Rawden. (*b.*) Average section in the Calverley, Horsforth, and Rawden Districts. (Principally from calculation.) (1872.) [Maps 88 NE. and 92 SE. Six-inch scale, 247, 231, 216, 217, Yorkshire. Horiz. Sects. 95.]

44. Yorkshire Coalfield. Sections of the Measures between the Soft Bed Coal and Middleton Main Coal in the Bradford and Leeds districts. 1. Booth Holme Field Colliery, Tong. 2. N. Pit, Tong. 3. Mill Pit, Tong. 4. Sowden Air Pit. 5. Boring, Fleece Inn, Churwell. 6. No. 10 Pit, Beeston Manor Colliery. 7. No. 2 Pit, Beeston Manor Colliery. 8. Boring at Beeston. 9. Boring, Dragon Pit, Wortley. 10. Air Pit, Moggey Field, Wortley. 11. Lane Pit, Wortley. 12. Boring, Wellhouse Foundry, Leeds. 13. Boring, Union Foundry, Leeds. 14. Brewery, South Brook Street, Leeds. 15. Boring, Dye Works, East Street, Leeds. 16. Boring, Merrion Square Mill, Leeds. 17. Oriental Baths, Cookridge Street, Leeds.

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18. Boring, St. Peter's Hill, Burley Road, Leeds. 19. No. 2 Boring, Green Farm, Leeds. 20. Gibralter Colliery, Hunslet, near Leeds. 21. Dame Pit, Waterloo Main Colliery. 22. Nursery Pit, Waterloo Main Colliery. 23. Boring, Killingbeck Park, near Leeds. 24. Boring near Crossgates. 25. Victoria Pit, Manston. 26. Boring, North Side of Fox Wood, Seacroft. 26A. Average section in the district North of Leeds. (1872.) [Maps 87 NW., 88 NE., and 93 SW.; six-inch 217, 218, 203, Yorkshire.]

45. Yorkshire Coalfield. 1. Boring in Soothill Estate. 2. Newhall Colliery. Middleton, near Leeds. 3. Bye Pit, Rothwell Haigh Colliery, near Leeds. 4. Newmarket Colliery, Methley. 5. Hool Wood Pit. 6. Boring, Little Cross Holme, Allerton Bywater, near Leeds. 7. Boring at Fairburn. 8. Boring at Fairburn in a field called Cregg. 10 & 11. Boring at Kippax. 12. Boring at Billy Wood, Kippax. 13. Borings at Westfield Lamb Bridge, Kippax. 14. Carforth Bridge, near Leeds. 15. Boring at Colton, near Leeds. 16. Bye Pit, West Yorkshire Colliery, Austhorpe. 17. Boring at Peckfield Farm, near Micklefield. 18. Boring at Micklefield. (1873.) [Maps, 87 NW. and 93 SW. (Yorkshire), six-inch maps, 218, 219, 232, 233, 234, and 235.]

46. Lower Lias and Rhætic or Penarth Beds of Somerset and Gloucestershires. 1. Puriton. 2. Horfield. 3. Uphill. 4. Upper Knowle. 5. Whitchurch. 6. Aust Cliff. 7. Westbury Cliff. 8. Patchway. 9. Saltford. 10. Saltford. 11. Weston, near Bath. 12. Keynsham Hams. 13. Paulton. 14. Wells. 15. Shepton Mallet. 16. Clutton. (1873.) [Maps 19, 20, and 35.]

47. Lower Lias and Rhætic or Penarth Beds of Glamorgan, Somerset, and Gloucestershires. 1. Penarth. 2. Street. 3. Lavernock. 4. Penarth Roads. 5. Curry Rivell. 6. St. Andrie's Slip. 7. Combe Hill. 8. Watchett. (1873.) [Maps 18, 19, 20, 36, and 44.]

48. Somersetshire and Gloucestershire Coalfields. 1. Braysdown Pit. 2. Upper Writhlington Pit. 3. Foxcote Pit. 4. Tyning Pit. 5. Wellsway Pit. 6. Old Grove Pit. 7. Fry's Bottom Pit. (1873.) [Map 19. Horiz. Sects. 105.]

49. Somersetshire and Gloucestershire Coalfield. 8. Horton Hill Pit. 9. Old Mills Pit. 10. Farrington Gurney Pit. 11. Bishop Sutton New Pit. 12. Farmborough Pit. 13. Parkfield Pit. General Section, near Nailsea Church. (1873.) [Maps 19 and 35. Horiz. Sects. 104.]

50. Somersetshire and Gloucestershire Coalfield. General Section at Bedminster. 20. Whitehall Pit. 21. Easton New Pit. 22. Barr's Court Pit. 23. Old Rock Pit. 24. New Mells Pit. 25. Newbury Pit. Section across Nettlebridge Valley, at Vobster. (1873.) Map 19, and Horiz. Sects. 15 and 16.

51. Somersetshire and Gloucestershire Coalfields. General Vertical Section, near Keynsham.

Compiled from sections near Queen Charlton, between Compton Dando and Pensford, and Pensford and Stanton Wick, Old Brislington Pit, between Brislington and Hanham, Golden Valley Pit, Bilton; Air Balloon Pit, Kingswood, New Whitehall, Kingswood Deep Pit, Easton Pit, Easton Brickyard Pit; Ashton Vale, New Pit; Brandon Hill. (1873.) [Maps 19, 35. Horiz. Sects. 103.]

52. Somersetshire and Gloucestershire Coalfields. General Vertical Section, near Clandown (1 mile N. of Radstock, Somersetshire).

Compiled from sections proved at Clandown, Radford, Tyning Pit, Radstock, Old Grove Pit, Timsbury, Grayfield, Clutton Ham, New Rock, Old Rock, New Mells, Sweetleaze, Barlake, Newbury, New Moorwood, Vobster, Edford, and Nettlebridge Valley Pits. (1873.) [Illustrating Map 19. Horiz. Sects. 105.]

53. Section of the Coal Measures of the South Wales Basins, from Glyncorrwg Fault to Pembrey Bar Fault on the South Crop, north of Anticlinal; showing the relative position and the average thickness of each coal seam.

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From collieries in the districts of Pembrey (on the west), Llanelly, Castell, Loughor, Swansea, Llansamlet, Neath, Britton Ferry to Maesteg (on the east). (1873.) [Illustrating Maps 36, 37.]

54. Sections of the Northumberland Coalfield between the Rivers Lyne and Wansbeck. 1. Collingwood. 2. Pit near Fawdon Quarry, Longhirst Grange. 3. Pegswood Colliery. 4. Longhirst Colliery. 5. Ashington Colliery. 6. Ashington. 7. Blackclose. 8. North Seaton Colliery. 9. Linton. 10. Woodhorn. 11. Woodhorn. (1874.) [Illustrating Maps 105 NW., NE., 109 SW., SE., 64, 65, Northumberland, six-inch.]

55. Sections of the Northumberland Coalfield between the Rivers Coquet and Lyne. 1. Ulgham Colliery. 1*a*. Widdrington. 2. Stobswood. 3. Widdrington Colliery. 4 (*a* & *b*). Chevington Colliery. 5. Chevington Colliery. 6. Broomhill Colliery. 7. Broomhill Colliery. 8. Ackrington Colliery. 9. Broomhill Colliery. 10. Radcliffe Colliery. 11 (*a* & *b*). Radcliffe Colliery. (1875.) [Maps 109 SW., SE., Northumberland, six-inch, 46, 47, 55.]

56. Pit-Section and Borings to the Little Limestone in the South Tyne District. No. 1. Blacksike Shaft. 2. Gairs. 3. Howard. 4. Roachburn. 5. Reaygarth Colliery. 6. Denton Fell. 7. Blenkinsope Colliery. 8. South Tyne Colliery, Fell End. 9. South Tyne, Greenwood. 10. West Plainmeller. 11. Hardriding. 12. Henshaw and Melkridge. 13. Unthank. 14. Henshaw. 15. Birkshaw. 16. Settlingstones. 17. Coastley. 18. Fourstones. 19. Acomb. 20. Stagshaw. 21. Fenwick. 22. Matfen Tilery. 23. Fallowfield. [One-inch Maps 105 NW., 106 NE., SE., and SW. Six-inch, 78, 84, 85, 86, 91, 92, 94, Northumberland; 18 and 25, Cumberland.

57. Section of the Coal Measures of the South Wales Basins from Glyncorrwg Fault to Pembrey Bar Fault, south of the Anticlinal; showing the relative position and the average thickness of each coal seam. From the Morfa, Bryndû, Cefn, Ffoes, and Tondû Collieries. (1874.) [Illustrating Maps 36, 37.]

58 and 59. Sections of the Coal Measures of the South Wales Basin from Glyncorrwg Fault to the Pembrey Bar Fault on the North Crop, showing the relative position and the average thickness of each coal seam. From Collieries in the Districts of Kidwelly, Llanelly, Swansea, and Neath. (58, 1874; 59, 1876.) [Maps 36 and 37.]

60. Sections of the Northumberland Coalfield (Western District). 1. Midgeholm Engine Pit Colliery. 2. Coanwood Colliery, West Pit. 3. Coanwood Colliery, East Pit. 4. Hargill Rigg South Borehole. 5. Hargill Rigg North Borehole. 6. Plainmeller Colliery, Old Pit. 7. Plainmeller New Pit. 8. Stublick Colliery, West Pit. 9. Cartsbogg Colliery, Engine Pit. 10. Stublick Colliery, West Shaft. 11. Prudhoe Main Colliery, John Pit. 12. Walbottle Colliery. (1876.) [Maps 105 SW., 106 SW., SE., Northumberland, six-inch scale, 91, 92, 93, 96.]

61. Sections of Shafts sunk in the Middle Coal Measures of Prescot, St. Helen's, Wigan, and Burnley. Scale, 100 feet to an inch. 1. Prescot; Whiston, Prescot, and Tarbock Collieries. 2. St. Helen's; Deep Pit St. Helen's Colliery. 3. Garswood, near St. Helen's. 4. Bryn near Ashton; Park Lane Colliery. 5. Pemberton; 18-feet Pit, Pemberton Colliery. 6. Norley Hall; No. 3 Pit, Norley Colliery. 7. Bradley Hall, Worthington. 8. Worthington; No. 1 Pit, Worthington Colliery. 9. Blainscough; No. 3 Pit, Blainscough Hall Collieries. 10. Burnley; Fulledge Colliery, Cliviger Colliery. (1876.) [Maps 80 NW., 89 SW., NE., NW., 88 NW., six-inch scale, 64, 85, 93, 101, 107, (Lancashire) Horiz. Sects., 62, 63, 68, 85, 86.]

62. Sections of Lead Mines in the Carboniferous Limestone Series of Northumberland, in the Districts of the Tyne, Allendale, and Derwent. 1. Shildon Mine Engine Shaft. 2. Beldon Mine Pumping Shaft. 3. Allenheads Mine, Collier and High Shafts. 4. Blackett Level, Breckon Hill Shaft. 5. Blackett Level, Sipton Shaft. 6. Blackett Level, Holms

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Linn Shaft. 7. Blackett Level, Studdon Dean Shaft. 8. Coalcleugh Mine, Scraithe Hole Shaft. 9. Longcleugh Mine. 10. Waterfall, Whitfield Grounds. 11. Honeycrook Mine, Leadbitter Shaft. 12. Grindon Mine Engine Shaft. 13. Settlingstones Mine, Winters Shaft. 14. Stonecroft Mine, Greyside Shaft. 15. Carr Edge Mine, West Shaft. 16. Fallowfield Mine. (1877.) [Maps 102 NE., 106 NE., SE., Northumberland, six-inch scale, 84, 85, 93, 101, 102, 106, 107, 108, 111.]

63. Sections of the Strata of Lead Mines in the Derwent and Wear Valleys, Durham. 1. Derwent Mines (Taylors Shaft). 2. Routh's Shaft. 3. Jeffreys Shaft. 4. Ramshaw Engine Shaft. 5. Pear's Shaft. 6. Rookhope, W.B. Lead Mine, Bolts Burn Engine Shaft. 7. Cornish Hugh Mine, Air Shaft. 8. Harehope Gill Mine. 9. Sharnberry Mine, Shaft A. 10. Sunnyside Mine, Bell's Shaft. 11. Whiteheap's Engine Shaft. 12. Slitt Mine, Engine Shaft. 13. Burtree Pasture Mine, Level Head Engine Shaft. (1878.) [Maps 102 NE., 103 NW., 106 SE. Durham, six-inch scale, 16, 22, 23, 32.]

64. Northumberland Coal-field (Supplementary Sheet). 1. Killingworth. 2. Coxlodge. 3. Wideopen. 3a. Callerton. 4. Dinnington. 5. Netherton. 6. Hepscott boring. 7. Camboie. 8. Widdrington boring. (1878.) [Maps 105 NE., NW., 109 SW. Northumberland, six-inch scale, 55, 72, 80, 87, 88.]

65. No. 1. Through the Coal Measures of Adelaide Colliery. 2. Coal Measures of South Durham Colliery. 3. Magnesian Limestone and Coal Measures of Maison's Pit, Great Chilton. 4. Through the Magnesian Limestone and Coal Measures and Millstone Grit of Bishop Middleham Colliery. 5. Magnesian Limestone and Coal Measures of Little Chilton Colliery. 6. Magnesian Limestone, Coal Measures, and Millstone Grit of Windlestone Colliery. 7. Magnesian Limestone and Coal Measures of Mainsforth Colliery. (1878.) One-inch Maps 103 NE. & SW. [Durham, six-inch scale, 35, 42, and 43.]

66. Illustrating the Strata of the Alston Moor Lead Mining District. 1. Rotherhope Feil Mine. 2. Hudgill Mine. 3. Garrigill Syke Mine. 4. Haggs Mine. 5. Haggs Mine, West End. 6. Brownley Hill Mine. 7. Bentyfield Mine, East End. 8. Bentyfield Mine, West End. 9. Dowgang Air-shaft. 10. Guddamgill Mine. 11. Tees Side Mine. 12 Metal Band Mine. (1878.) One-inch Map 102 NE. Six-inch, 33, 34, 41, 42, 51, 52, Durham.]

67. Sections of the Lower and Middle Oolites of the Yorkshire coast from Filey to Cloughton. (1876.) [Maps 95 NW. and SW. Yorkshire six-inch scale, 62, 78, 94.]

68. Sections to illustrate the Strata above the Four Foot Coal in the Whitehaven District of the Cumberland Coal Field. 1. Croft Pit. 2. Arrowthwaite Pit. 3. Boring near Raven Hill Pit. 4. Salton Pit. 5. King Pit. 6. Duke Pit. 7. Wellington Pit. 8. James Pit. 9. William Pit. 10. Boring near Howgill Heads, Bearmouth. 11. Boring near Ingwell. (1883.) [Map 101 SW., and Cumberland, six-inch Map, 67.]

69. The Carboniferous Limestone in the District between Egremont and Woodend, Cumberland Coal and Iron Field, 1 to 8 borings near Egremont. 9 to 13 and 17 borings near and south of Woodend. 14 to 16 Pit sections, Bigrigg Iron Mines. (1883.) [Map 101 SW., and Cumberland, six-inch Map 72.]

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67. *Carrick-on-Shannon.* Parts of Cavan, Leitrim, and Roscommon; includes Drumshambo, Ballinamore, Battle Bridge, Leitrim, Carrick-on-Shannon, Cloone, and Slieve Anierin Mountain. (1876.) 3*s.*
Explanation published with 66. 1*s.* 6*d.*

68. *Cavan.* Parts of Monaghan, Cavan, and Leitrim; includes Belturbet, Butler's Bridge, Ballyhaise, Killashandra, Newtowngore, Carrigallen, and Cavan. (1878.) 3*s.*
Explanation published with 69. 9*d.*

69. *Cootehill.* Parts of Cavan and Monaghan; includes Cootehill, Drumstradone, and Shercock. (1878.) 3*s.*
Explanation published with 68. 9*d.*

70. *Dundalk.* Parts of Armagh, Monaghan, and Louth; includes Dundalk, Crossmaglen, Forkill, Jonesborough, Carrickmacross, Blackrock, Louth, and Mullacrew. (1875.) 3*s.*
Explanation published. 3*s.*

71. *Carlingford.* Parts of Armagh, Down, and Louth; includes Carlingford, Carlingford Lough and Mountains, Warrenpoint, Rostrevor, Kilteel, Whitestown, Rathnor, and the southern slopes of the Mourne Mountains. (1876.) 3*s.*
Explanation of north-eastern portion published with 60. 3*s.* 6*d.*

72. Very small portion of the county of Down, north-east of Kilkeel. (1871.) 1*s.* 6*d.*

73. *Clare Island.* Part of the county of Mayo; includes Clare Island, and southern portion of Achill Island. (1879.)
Explanation partly published with 62. 1*s.* 6*d.*

74. *Westport.* Part of the county of Mayo; including Newport, Westport, Louisburgh, Clew Bay, Newport Bay, and Westport Bay. (1870.) 3*s.*
Explanation published in part with 83 and 84. 3*s.*

75. *Castlebar.* Part of the county of Mayo; includes Castlebar and Balla. (1870.) 3*s.*
Explanation published. 1*s.*

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76. *Ballaghaderreen.* Parts of the counties of Mayo and Roscommon; includes Ballaghaderreen, Kiltamagh, and Kilkelly. (1874.) 3*s.*
Explanation published with 77. 1*s.*

77. *Elphin.* Part of the county of Roscommon, with small portions of the counties of Mayo and Sligo; includes Elphin, Frenchpark, and Bellanagare. (1873.) 3*s.*
Explanation published with 76. 1*s.*

78. *Strokestown.* Parts of the counties of Leitrim, Longford, and Roscommon; includes Drumsna, Mohill, Roosky, Strokestown, Drumlish. (1871.) 3*s.*
Explanation published jointly with 79 and 80. 1*s.*

79. *Granard.* Parts of the counties of Cavan, Leitrim, Longford, Meath, and Westmeath; includes Arvagh, Ballananagh, Bunlahy, Ballinalee, Granard, and Mount Nugent. (1872.) 3*s.*
Explanation published jointly with 78 and 80. 1*s.*

80. *Ballyjamesduff.* Parts of the counties of Cavan and Meath, with a small portion of Monaghan; includes Ballyjamesduff, Bailieborough, Kingscourt, Virginia, Oldcastle, and Moynalty and Lough Ramor. (1874.) 3*s.*
Explanation published with 78 and 79. 1*s.*

81. *Ardee.* Parts of the counties of Cavan, Louth, Meath, and Monaghan; includes Nobber, Drumcondra, Ardee, Castlebellingham, Dunleer. (1870.) 3*s.*
Explanation published with 82. 1*s.*

82. *Clogher.* Part of county Louth; includes Annagassan, Dunany Point, Clogher Head, and Termonfeckin. (1869.) 1*s.* 6*d.*
Explanation published with 81. 1*s.*

83. Parts of the coast of Galway and Mayo; includes the islands of Inishturk and Inishbofin. (1874.) 3*s.*
Explanation published with 84. 7*s.*

84. Parts of Mayo and Galway; includes Leenane, Salrock, Letterbrickaun, Srahnalong, Derrycraff, Uggool, also Killary harbour and Doo Lough. (1874.) 3*s.*
Explanation published with 83. 7*s.*

85. *Ballinrobe.* Parts of the counties of Mayo and Galway; includes Ballinrobe and Hollymount, Lough Cara, and northern part of Lough Mask. (1872.) 3*s.*
Explanation. Eastern half published with 86.

86. *Clare.* Parts of Mayo, Roscommon, and Galway; includes Clare, Ballyhaunis, Ballinlough, Ballindine, Kilnalag, Milltown, and Dunmore. (1868.) 3*s.*
Explanation published with 87, 88, and part of 85. 1*s.*

87. *Roscommon.* Parts of Roscommon and Galway; includes Castlereagh, Castleplunket, Ballymoe, Glennamaddy, and Roscommon. (1868.) 3*s.*
Explanation published with 86. 1*s.*

88. *Longford.* Parts of Roscommon and Longford; includes Cloondara, Longford, Lanesborough, and Keenagh. (1867.) 3*s.*
Explanation published with 86 and 87. 1*s.*

89. *Edgeworthstown.* Parts of Longford, Meath, and Westmeath; includes Edgeworthstown, Abbeylara, Coole, Castlepollard, and Ballinalack. (1867.) 3*s.*
Explanation published with 90. 1*s.*

90. *Kells.* Parts of Meath and Westmeath; includes Millbrook, Carlanstown, Kells, Delvin, and Athboy. (1867.) 3*s.*
Explanation published with 89. 1*s.*

91. *Navan.* Parts of Meath, Louth, and Dublin; includes Wilkinstown, Slane, Tullyallen, Navan, and Duleek. (1867.) Revised Edn., 1871. 3*s.*
Explanation published with 92. 1*s.*

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92. *Drogheda.* Parts of Louth, Meath, and Dublin; includes Baltray, Drogheda, Mornington, Donacarney, Julianstown, Gormanstown, Stamullin, and Balrothery; also Rockabill Rock, and coast between Baltray and Balbriggan. (1867.) Revised Edn., 1871. 3*s.*
Explanation published with 91. 1*s.*

93. *Clifden.* Part of the county of Galway; includes Clifden, Kylemore, Ballynakill Harbour, Letterfrack, Ardbear Bay, Mountain Bay, Ballyconnelly Bay, and the Western portion of the Twelve Pins Mountains. (1876.) 3*s.*
Explanation published with 94. 9*s.*

94. *Recess.* Part of the county of Galway; includes Kylemore Lough, Lough Nafooey, Lough Magh, Derryclare Lough, Ballynahinch Lake and Castle, Recess, Binnabiola, Maumturk, and Corcogemon Mountains. (1877.) 3*s.*
Explanation published with 93. 9*s.*

95. *Headford.* Parts of Mayo and Galway; includes Cong, Neale, Kilmaine, Shrule, Oughterard, Headford, the northern part of Lough Corrib, and southern end of Lough Mask. (1869.) 3*s.*
Explanation published. 1*s.*

96. *Tuam.* Part of county Galway; includes Tuam and Newtown Bellew. (1867.) 3*s.*
Explanation published jointly with 97, 106, and 107. 1*s.*

97. *Mount Bellew.* Parts of Galway and Roscommon; includes Athleague, Ballygar, and Castle Blakeney. (1867.) 3*s.*
Explanation published jointly with 96, 106, and 107. 1*s.*

98. *Ballymahon.* Parts of Roscommon, Longford, and Westmeath; includes Knockcroghery. (1865.) 3*s.*
Explanation published jointly with 99, 108, and 109. 1*s.*

99. *Mullingar.* Parts of Westmeath and Longford; includes Ballynacarrigy, Ballymore, and Castletown. (1864.) 3*s.*
Explanation published jointly with 98, 108, and 109. 1*s.*

100. *Kinnegad.* Parts of Meath, Westmeath, and Kildare; includes Kinnegad, Killucan, Kildalkey, and Longwood. (1860.) 3*s.*
Explanation published jointly with 110. 1*s.*

101. *Trim.* Part of Meath, with small parts of Kildare and Dublin; includes Trim, Kilmessan, Garristown, Ashbourne, Ratoath, Dunshaughlin, Rathmolyon, Summerhill, and Dunboyne. (1859.) 3*s.*
Explanation published. 1*s.*

102. *Swords.* Part of Dublin, with parts of Meath; includes Naul, Skerries, Oldtown, Lusk, Rush, Swords, Malahide, and Lambay Island, and the coast from Skerries to Portmarnock. (1859.) 3*s.*
Explanation published with 112. 1*s.*
Horizontal Section, Sheet 14, partly illustrates this Map.

103. *Slyne Head.* Part of the county of Galway; includes Roundstone, Errisley, Moyrues, Slyne Head, and Mace Head. (1870.) 3*s.*
Explanation partly published with 104 and 113. 1*s.*

104. Part of the county of Galway; includes Bertraghboy Bay and Kilkieran Bay. (1870.) 3*s.*
Explanation published jointly with 113 and portions of 103 and 122. 1*s.*

105. *Galway.* Part of county Galway; includes Knocknalecky Hill, southern part of Lough Corrib, Moycullen, Spiddle, Barna, and Galway. (1869.) 3*s.*
Explanation published. 1*s.*

106. *Athenry.* Part of Galway; includes Claregalway, Monivea, Oranmore, and Athenry. (1867.) 3*s.*
Explanation published jointly with 96, 97, and 107. 1*s.*

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107. *Ballinasloe.* Parts of Galway and Roscommon; includes Ahascragh, Kilconnell, Aughrim, and Ballinasloe. (1867.) 3*s.*
Explanation published jointly with 96, 97, and 106. 1*s.*

108. *Athlone.* Parts of Roscommon, Westmeath, Galway, and King's County; includes Shannonbridge, Ferbane, and Moate. (1865.) 3*s.*
Explanation published jointly with 98, 99, and 109. 1*s.*

109. *Tullamore.* Parts of Westmeath and King's County; includes Clara, Kilbeggan, Tyrrellspass, and Philipstown. (1864.) 3*s.*
Explanation published jointly with 98, 99, and 108. 1*s.*

110. *Edenderry.* Parts of King's County, Kildare, Meath, and Westmeath; includes Johnstown, Edenderry, and Clonbulloge. (1859.) 3*s.*
Explanation published jointly with 100. 1*s.*

111. *Maynooth.* Parts of Kildare, Dublin, and Meath; includes Kilcock, Maynooth, Leixlip, Lucan, Robertstown, Clane, Clondalkin, Sallins, and Rathcoole. (1859.) 3*s.*
Explanation published. 1*s.*

112. *Dublin.* Part of county Dublin; includes the city of Dublin, Blanchardstown, Finglass, Howth, Palmerstown, Tallaght, Kingstown, Golden Ball, and Loughlinstown, and the Coast from Ireland's Eye to Killiney Bay. (1859.) 3*s.*
Explanation published with 102. 1*s.*
Horizontal Section, Sheet 14, partly illustrates this Map.

113. *Aran Islands.* Part of county of Galway; includes Inishmore and Inishmaan Islands, with a small part of Inisheer, or the southern Aran Island, also part of the southern shore of the county of Galway. (1869.) 3*s.*
Explanation published jointly with 104, and the adjoining portions of 103 and 122. 1*s.*

114. *Ballyvaghan.* Parts of Clare and Galway; includes the centre of Galway Bay, with part of the North Shore and a large part of the South Shore about Black Head, and south of Ballyvaghan. (1862.) Revised Edn., 1868. 3*s.*
Explanation published with 122 and 123. 1*s.*

115. *Loughrea.* Parts of Galway and Clare; includes Clarinbridge, Craughwell, Kinvarra, and Kilchreest. (1865.) 3*s.*
Explanation published with 116. 1*s.*
Horizontal Section, Sheet 18, partly illustrates this Map.

116. *Portumna.* Parts of Galway and Tipperary; includes Kilreekill, Kiltormer, Laurencetown, Eyrecourt, Killimor, and Tynagh. (1865.) 3*s.*
Explanation published with 115. 1*s.*
Horizontal Section, Sheet 18, partly illustrates this Map.

117. *Parsonstown.* Parts of Galway, Tipperary, and King's County; includes Shannon Harbour, Banagher, Frankford, and Kinnitty (1863.) 3*s.*
Explanation published with 118. 1*s.*

118. *Mountmellick.* Parts of the King's and Queen's Counties; includes Mountbolus, Clonaslee, Killeigh, Geasehill, Cloneygowan, and Rosenallis. (1863.) 3*s.*
Explanation published with 117. 1*s.*

119. *Portarlington.* Parts of King's County, Queen's County, and Kildare; includes Rathangan, Portarlington, Monasterevin, and Kildare. (1857.) 3*s.*
Explanation published. 1*s.*

120 *Naas.* Parts of Kildare and Wicklow, with small part of Dublin, includes Newbridge, Naas, Kilcullen, Blessington, Ballymore Eustace, and Holywood. (1855.) 3*s.*
Explanation published. 9*d.*

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121. *Bray.* Part of Wicklow and Dublin; includes Powerscourt, Bray, Kippure Mountain, Lough Tay and Lough Dan, Newtown-Mount-Kennedy, and the Shore from Shanganagh to Six-mile-Point. (1855.) 3*s.*
Explanation published with 130. 1*s.*

122. *Hags Head.* Part of Clare and Galway; includes the Coast round Hags Head, the Cliffs of Moher, and Inisheer or the southern Aran Island. (1862.) 1*s.* 6*d.*
Explanation published with 114 and 123. 1*s.*

123. *Ennistimon.* Part of Clare; includes Fisherstreet, Lisdoonvarna, Castletown, Glencolumbkill, Kilfenora, Liscannor, Ennistimon, and Corrofin. (1862.) 3*s.*
Explanation published with 114 and 122. 1*s.*
Horizontal Section, Sheet 17, illustrates this Map.

124. *Gort.* Parts of Galway and Clare; includes Crusheen and Feakle. (1863.) 3*s.*
Explanation published jointly with 125. 1*s.*
Horizontal Sections, Sheets 17 and 18, illustrate this Map.

125. *Woodford.* Parts of Clare, Galway, and Tipperary; includes Woodford, Borrisokane, Scariff, and Mount Shannon, and the principal part of Lough Derg. (1862.) 3*s.*
Explanation published with 124 and 126. 1*s.*
Horizontal Sections, Sheets 9 and 17, illustrate this Map.

126. *Roscrea.* Parts of Tipperary and the King's and Queen's Counties; includes Cloghjordan, Shinrone, and Roscrea, with Knockshigowna, and part of the Slieve Bloom Mountains. (1862.) 3*s.*
Explanation (including part of 125) published. 1*s.*
Horizontal Section, Sheet 11, illustrates this Map.

127. *Maryborough.* Part of Queen's County, with small parts of King's County and Tipperary; includes Mountrath, Maryborough, Borris-in-Ossory, and Abbeyleix, with the highest part of the Slieve Bloom Mountains. (1862.) Revised Edn., 1879. 3*s.*
Explanation published. 1*s.*
Explanatory Memoir on the Geology of the Leinster Coalfields to accompany parts of Sheets 127, 128, 136, 137, 145, 146, 147, 155, 156, and 166. 6*s.*
Horizontal Sections, Sheets 3 and 11, illustrate this Map.

128. *Athy.* Parts of Queen's County and Kildare; includes Stradbally, Athy, and Castledermot, with the northern part of the Castlecomer Coalfield, about the Wolfhill and Modubeagh Collieries. (1858.) Revised Edn., 1878. 3*s.*
Explanation published. 1*s.*
Horizontal Sections, Sheets 2 and 3, and Vertical Section No. 1, illustrate this Map.

129. *Baltinglass.* Parts of Wicklow, Kildare, and Carlow; includes Dunlavin, Donard, Stratford-on-Slaney, Baltinglass, and Lugnaquilla Mountain, with the upper part of the Glenmalure Mining District. (1855.) 3*s.*
Explanation published.

130. *Wicklow.* Part of county Wicklow; includes the Seven Churches and Glenmalure Mining Districts, and part of the Ovoca Mines, and the towns of Wicklow and Rathdrum, with the Coast north and south of Wicklow Head. (1855.) Revised Edn., 1882. 3*s.*
Explanation published with 121. 1*s.*

131. *Mullagh.* Part of county Clare; includes Mal Bay, and the Coast south of it to Donegal Point. (1860.) 1*s.* 6*d.*
Explanation published jointly with 132. 1*s.*

132. *Ennis.* Part of county Clare; includes Milltown Malbay, Ennis, and part of the estuary of the Fergus River. (1860.) 3*s.*
Explanation (including that of 131) published. 1*s.*
Horizontal Section, Sheet 9, illustrates this Map.

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133. *Six-Mile-Bridge.* Part of county Clare; includes Tulla, Clare, Broadford, Newmarket-on-Fergus, and Six-Mile-Bridge, with part of the Slieve Bernagh Mountains. (1861.) 3*s.*
Explanation published. 1*s.*
Horizontal Section, Sheet 9, illustrates this Map.

134. *Nenagh.* Parts of Tipperary, Clare, and Limerick; includes Tomgraney, Killaloe, Nenagh, O'Brien's Bridge, and Silvermines, with the Keeper, the Slieve Arra, and part of the Slieve Bernagh Mountains. (1861.) 3*s.*
Explanation published. 1*s.*
Horizontal Section, Sheet 9, illustrates this Map.

135. *Templemore.* Parts of Tipperary, and King's and Queen's Counties; includes Toomyvara, Moneygall, Borrisoleigh, Templemore, and Templetouhy, with the Devil's Bit Mountain, and adjacent hills. (1860.) 1*s.*
Explanation published. 1*s.*

136. *Durrow.* Parts of Queen's County, Kilkenny, and Tipperary; includes Rathdowney, Durrow, Ballinakill, Johnstown, Freshford, and Ballyraggett. 3*s.* (1860.) Revised Edn., 1878.
Explanation published. 1*s.*
Horizontal Section, Sheet 1, illustrates this Map.

137. *Carlow.* Parts of Kilkenny, Carlow, Queen's County, and Kildare; includes Castlecomer, Carlow, and Leighlin Bridge, and the chief part of the Castlecomer Coal Mining District. (1858.) Revised Edn., 1879. 3*s.*
Explanation published. 1*s.*
Horizontal Sections, Sheets 1, 2, and 3, and Vertical Section No. 1, illustrate this Map.

138. *Tullow.* Parts of Carlow, Kildare, Wicklow, and Wexford; includes Tullow, Hacketstown, Tinahely, and Shillelagh. (1856.) 3*s.*

139. *Arklow.* Parts of Wicklow and Wexford; includes Aughrim and Arklow, the Ovoca Mining District, and Croaghan Kinshela and the Coast about Mizen Head and Kilmichael Point. 3*s.*

Revised sheet in preparation.
Explanation in preparation.

140. *Loop Head.* Part of Clare; includes Kilbaha and the Coast round Loop Head. (1859.) 1*s.* 6*d.*
Explanation published with that of 141. 1*s.*

141. *Kilrush.* Parts of Clare and Kerry; includes Carrigaholt, Cross, Kilkee, Kilrush, and Cooraclare, and part of the Shannon Mouth, with Scattery, and other islands. (1859.) 3*s.*
Explanation published with 140. 1*s.*

142. *Foynes.* Parts of Clare, Kerry, and Limerick; includes Kilmihil, Knock, Labasheeda, Killadysert, Tarbert, Glin, Loughil, Shanagolden, Foynes, and the mouth of the Fergus River; the Small Coal Crops of Lack, Ballyvohane, Goleensallagh, Labasheeda, and Cloonkett, and those near Glin, Rocklodge, Coalhill, Knocknabooly, and Ballyhahill, are marked on it. (1859.) 3*s.*
Explanation published. 1*s.*

143. *Limerick.* Parts of Clare and Limerick; includes the city of Limerick, Askeaton, Pallaskenry, Kildimo, Adare, Patrickswell, and Cloonlara. It shows the lodes near Pallaskenry, Ballysteen, Graigue Lough, and Nantenan. (1860.) Revised Edn., 1874. 3*s.*
Explanation published. 1*s.*
Horizontal Section, Sheet 7, illustrates this Map.

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144. *Cappamore.* Parts of Clare, Tipperary, and Limerick; includes Castleconnell, Newport, Caherconlish, Cappamore, Doon, and Cappaghwhite, also Lackamore Copper Mine. (1860.) 3*s.*
Explanation published. 1*s.*
Horizontal Sections, Sheets 7 and 8, illustrate this Map.

145. *Thurles.* Part of Tipperary; includes Upperchurch, Thurles, Dundrum, Holycross, Littleton, and Twomileborris. (1860.) 3*s.*
Explanation published. 1*s.*
Horizontal Section, Sheet 7, illustrates this Map.

146. *Ballingarry.* Parts of Tipperary and Kilkenny; includes Killenaule, New Birmingham, Ballingarry, and Urlingford. It shows the coal crops in the vicinity of Killenaule and Ballingarry. (1860.) Revised Edn., 1878. 3*s.*
Explanation published. 1*s.*
Horizontal Section, Sheet 10, illustrates this Map.

147. *Kilkenny.* Parts of Kilkenny and Carlow; includes the city of Kilkenny, Bennet's Bridge, Dungarvan, Gowran, Goresbridge, Borris, and Bagnalstown. (1857.) Revised Edn.. 1879. 3*s.*
Explanation published with 157. 1*s.*
Horizontal Sections, Sheets 2, 3, and 12, illustrate this Map.

148. *Newtownbarry.* Parts of Carlow and Wexford; includes Newtownbarry, Myshall, Clonegal, Carnew, Camolin, and Ferns, also Mount Leinster. (1856.) 3*s.*
Revised sheet in preparation.
Explanation in preparation.

149. *Gorey.* Part of Wexford; includes Gorey, Ballycanew, and Monamolin, and the shore from Tara Hill to Cahore Point. (1856.) 3*s.*
Revised sheet in preparation.
Explanation in preparation.

150. *Kerry Head.* Part of Kerry. (1859.) 1*s.* 6*d.*
Explanation published with that of 151. 1*s.*

151. *Listowel.* Part of Kerry; includes Ballylongford, Ballybunnion, Ballyduff, Listowel, and Lixnaw, with the coast south of the mouth of the Shannon. (1859.) 3*s.*
Explanation published with sheet 150. 1*s.*

152. *Newcastle.* Parts of Limerick and Kerry; includes Newtownsandel, Ardagh, Abbeyfeale, and Newcastle. (1860.) 3*s.*
Explanation published. 1*s.*

153. *Rathkeale.* Part of Limerick county; includes Rathkeale, Croom, Ballingarry, Kilmeedy, Bruree, and Kilmallock. (1860.) 3*s.*
Explanation published. 1*s.*
Horizontal Section, Sheet 8, illustrates this Map.

154. *Tipperary.* Parts of Tipperary and Limerick; includes Pallas Grean, Bruff, Hospital, Tipperary, and Galbally. (1860.) 3*s.*
Explanation published. 1*s.*
Horizontal Sections, Sheets 6 and 8, illustrate this Map.

155. *Cashel.* Part of Tipperary county; includes Dundrum, Cashel, Bansha, and part of Fethard. (1859.) Revised Edn., 1879. 3*s.*
Explanation published. 1*s.*

156. *Callan.* Parts of Tipperary and Kilkenny; includes Callan, Kells, Kilmaganny, Nine-mile-house, Drangan, Fethard, and Slievenaman Mountain. (1858.) Revised Edn., 1879. 3*s.*
Explanation published. 1*s.*
Horizontal Sections, Sheets 10 and 13, illustrate this Map.

157. *New Ross.* Parts of Kilkenny, Carlow, and Wexford; includes Stonyford, Thomastown, Inistioge, Knocktopher, Graiguenamanagh, and New Ross, with Brandon Mountain. (1857.) 3*s.*
Explanation published with that of 147. 1*s.*
Horizontal Sections, Sheets 12 and 13, illustrate this Map.

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158. *Enniscorthy.* Part of Wexford, with a small part of Carlow; includes Enniscorthy, Ballaghkeen, Castlebridge, and Oilgate. (1856.) Revised Edn., 1862. 3*s.*
Explanation published.

159. *Blackwater.* Part of Wexford; it includes the villages of Ford and Blackwater, and part of the coast north of Wexford Harbour. (1855.) 1*s.* 6*d.*
Explanation published.

160. *Brandon Head.* Part of Kerry; it includes Brandon Hill, and the mouth of Smerwick Harbour, with the adjacent coast. (1859.) 1*s.* 6*d.*
Explanation published with 161, 171, and 172. 1*s.*

161. *Tralee Bay.* Part of Kerry; includes the village of Castlegregory, and the mountains of Caherconree and Baurtregoum. (1859.) 3*s.*
Explanation published with 160, 171, and 172. 1*s.*

162. *Tralee.* Part of Kerry; it includes Tralee, Ardfert, Abbeydorney, Blennerville, and Castle Island. (1859.) 3*s.*
Explanation published. 1*s.*
Horizontal Section, Sheet 20, illustrates this Map.

163. *Newmarket.* Parts of Kerry, Limerick, and Cork; includes the Mullaghareirk Mountains, the source of the Blackwater, Broadford, and Newmarket. (1859.) 3*s.*
Explanations published with that of 174 and part of 175. 1*s.*

164. *Charleville.* Parts of the counties of Limerick and Cork; it includes Charleville, Dromcolliher, Milford, Freemount, Liscarrol, Churchtown, Buttevant, and Doneraile, also the west end of the Ballyhoura Mountains. (1859.) 3*s.*
Explanation published. 1*s.*

165. *Mitchelstown.* Parts of Limerick, Cork, and Tipperary; it includes Kilfinane, Ballylanders, Kildorery, Mitchelstown, and Rockmills, also Galtymore Mountain. (1857.) 3*s.*
Explanation published. 1*s.*
Horizontal Section, Sheet 6, illustrates this Map.

166. *Clonmel.* Parts of Tipperary and Waterford; it includes Caher, Clonmel, Marlfield, Ardfinan, Ballypooreen, Clogheen, and Newcastle, also parts of the Galty and the Knockmealdown Mountains. (1857.) Revised Edn., 1879. 3*s.*
Explanation published. 1*s.*

167. *Carrick-on-Suir.* Parts of Tipperary, Kilkenny, and Waterford; it includes Carrick, Kilsheelan, Piltown, Portlaw, and Clonlea, also the north-eastern part of the Comeragh Mountains. (1857.) Revised Edn., 1863. 3*s.*
Explanation published with 168, 178, and 179. 1*s.*
Horizontal Section, Sheet 13, illustrates this Map.

168. *Waterford.* Parts of Kilkenny, Waterford, and Wexford; it includes Mullinavat, Glenmore, Waterford, Passage, Ballyhack, Arthurstown, and Duncannon, also the junction of the rivers Suir and Barrow. (1857.) Revised Edn., 1862. 3*s.*
Explanation published with 167, &c. 1*s.*

169. *Wexford.* Part of Wexford county; includes Glynn, Taghmon, Wexford, and Duncormick, with the Forth Mountain district. (1856.) Revised Edn., 1863. 3*s.*
Explanation published with 170, &c. 2*s.* 9*d.*

170. *Rosslare Point.* Part of Wexford; includes the entrance to Wexford Harbour, and the Coast southward to Greenore Point. (1856.) Revised Edn., 1875. 1*s.* 6*d.*
Explanation published with 169, &c. 2*s.* 9*d.*

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171. *Dingle.* Part of Kerry; includes Sybil Point, Ferriter's Cove, the head of Smerwick Harbour, Dingle, Ventry, Slea Head, and the Blasket Islands. (1859.) 3*s.*
Explanation published with 160, 161, and 172. 1*s.*
Horizontal Section, Sheet 15, illustrates this Map.

172. *Dingle Bay.* Part of Kerry; includes Anascaul and Rossbeigh, the Head of Dingle Bay, and Castlemaine Harbour. (1859.) 3*s.*
Explanation published with 160, 161, and 171. 1*s.*

173. *Killarney.* Part of Kerry; includes Castlemaine, Scartaglin, Killorglin Milltown, and Killarney. (1859.) 3*s.*
Explanation published. 1*s.*
Horizontal Section, Sheets 20 and 21, illustrate this Map.

174. *Millstreet.* Parts of Kerry and Cork; includes King Williamstown and Millstreet, and shows the Coal Crops about Dromagh and Drominagh. (1859.) 3*s.*
Explanation published with that of 163. 1*s.*
Horizontal Section, Sheet 4, illustrates this Map.

175. *Mallow.* Part of the county of Cork; includes Kanturk, Banteer, and Mallow, Mount Hilary, and part of the Nagles Mountains. (1858.) Revised, 1860. 3*s.*
Explanation published. 1*s.*

176. *Fermoy.* Part of Cork; includes Kilworth, Glanworth, Killawillin, Ballyhooly, Fermoy, Glenville, Rathcormack, and Castlelyons, with the eastern part of the Nagles Mountains. (1857.) 3*s.*
Explanation with that of 177. 1*s.*
Horizontal Section, Sheet 5, illustrates this Map.

177. *Lismore.* Parts of Waterford, Cork, and Tipperary; includes Lismore, Cappoquin, Ballyduff, Ballynoe, Curraghglass, Tallow, Villierstown, and Aglish, with part of the Knockmealdown Mountains. (1857.) 3*s.*
Explanation published with that of 176. 1*s.*
Horizontal Section, Sheet 16, illustrates this Map.

178. *Dungarvan.* Part of Waterford; includes Helvick Head, Dungarvan, Stradbally, Bunmahon, Knockmahon, Annestown, Kill, and Kilmacthomas, and the south-eastern part of the Comeragh Mountains. (1857.) Revised Edn., 1863. 3*s.*
Explanation published with 167, &c. 1*s.*
Horizontal Section, Sheet 13, illustrates this Map.

179. *Tramore.* Parts of Waterford and Wexford; includes Tramore, Dunmore, and Slade, Waterford Harbour, Tramore Bay, Hook Point, Brownstown Head and Great Newtown Head. (1857.) Revised Edn., 1863. 3*s.*
Explanation published with 167, &c. 1*s.*

180. *Fethard.* Part of Wexford; includes Fethard and Baginbun Head, Crossfarnoge Point, and the Saltee Islands. (1856.) Revised Edn., 1876. 1*s.* 6*d.*
Explanation published with 169, &c. 2*s.* 9*d.*

181. *Carnsore Point.* Part of Wexford; includes part of Lady's Island Lake and Carnsore Point. (1856.) Revised Edn., 1873. 1*s.* 6*d.*
Explanation published with 169, &c. 2*s.* 9*d.*

182. *Valencia.* Part of Kerry; includes the Island of Valencia and the Coast from Puffin Sound to Canglass Point. (1859.) 1*s.* 6*d.*
Explanation published with that of 183 and 190. 1*s.*

183. *Cahersiveen.* Part of Kerry; includes Cahersiveen and Glencar, with the chief Mountains of Iveragh. (1859.) 3*s.*
Explanation published with 182 and 190. 1*s.*
Horizontal Section, Sheet 21 illustrates this Map.

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184. *Kenmare.* Part of Kerry; includes Kenmare and Kilgarvan, Lough Guitane, the Middle and Upper Lakes of Killarney, the Gap of Dunloe MacGillycuddy's Reeks, and Carrantuohill, and the chief part of the Roughty Valley. (1859.) 3*s.*
Explanation published. 1*s.*
Horizontal Sections, Sheets 19, 20, and 21, illustrate this Map.

185. Parts of the counties of Kerry and Cork; includes Ballyvourney and Massytown, part of Macroom, Glenflesk, the Paps Mountain, Musheramore, and the head of the Roughty Valley. (1858.) 3*s.*
Explanation with that of 186. 1*s.*
Horizontal Section, Sheet 4, illustrates this Map.

186. *Blarney.* Part of Cork; includes Macroom, Coachford, Dripsey Blarney, and Ballincollig, with the summit of the Boggra Mountains (1858.) 3*s.*
Explanation with that of 185. 1*s.*

187. *Cork.* Part of the county of Cork; includes Watergrasshill, the City of Cork, Middleton, Passage West, and Part of Cloyne. (1857.) Revised Edn., 1863. 3*s.*
Explanation published with 195 and 196. 1*s.*
Horizontal Section, Sheet 5, illustrates this Map.

188. *Youghal.* Parts of Cork and Waterford; includes Dungourney, Clashmore, Youghal, Castlemartyr, part of Cloyne, Ardmore, and the Coast on each side of Youghal Bay. (1857.) 3*s.*
Explanation published with that of 189. 1*s.*
Horizontal Section, Sheet 16, illustrates this Map.

189. *Mine Head.* Part of Cork; includes the Coast north-east of Ardmore Bay. (1858.) 1*s.* 6*d.*
Explanation published with that of 188. 1*s.*

190. *Bolus Head.* Part of Kerry; includes the entrance to Ballinskellig Bay, also Scariff Island, and the Skelligs rocks. (1859.) 1*s.* 6*d.*
Explanation published with that of Sheets 182 and 183. 1*s.*

191. *Kenmare River.* Parts of Kerry and Cork; includes Waterville, Darrynane, and Sneem, the Harbours of Killmakilloge and Ardgroom, and Coulagh Bay. (1858.) 3*s.*
Explanation published with that of Sheets 182, 183, and 190. 1*s.*
Horizontal Section, Sheet 21, illustrates this Map.

192. *Glengarriff.* Parts of Kerry and Cork; includes parts of Kenmare and Bantry Bays, Adrigoole and Glengarriff Harbours, with Whiddy Island. (1858.) 3*s.*
Explanation published with 199. 1*s.*
Horizontal Section, Sheets 19 and 21, illustrate this Map.

193. *Dunmanway.* Part of Cork; includes Inchygeelagh, and the Lakes of Allua, and Gougane Barra, Sheehy Mountain, and Dunmanway. (1858.) 3*s.*
Explanation published. 1*s.*
Horizontal Section, Sheet 4, partly illustrates this Map.

194. *Bandon.* Part of Cork; includes Ballyneen, Enniskeen, Crookstown, Bandon, Inishannon, and Ballinadee. 3*s.*
Explanation published with 201, 202. 1*s.*
Horizontal Section, Sheet 4, illustrates this Map.

195. *Queenstown.* Part of Cork; includes Ballinhassig, Kinsale, Belgooly, Nohoval, Crosshaven, Carrigaline, and Queenstown, and Cork Harbour. (1857.) 3*s.*
Explanation published with 187 and 196. 1*s.*
Horizontal Section, Sheet 5, illustrates this Map.

196. *Ballycottin.* Part of Cork; includes Shangarry and Ballycottin Bay. (1857.) 1*s.* 6*d.*
Explanation published with 187 and 195. 1*s.*

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197. *Dursey Head.* Part of Cork; includes the Islands of the Bull, the Cow, and the Calf, with the western part of Dursey Island. (1859.) 1*s.* 6*d.*
Explanation published with that of Sheet 198. 1*s.*

198. *Castletown Bearhaven.* Part of Cork; includes the village of Ballydonegan, and the Allihies Copper Mines, the Harbour of Bearhaven, and Bear Island with the adjacent Coasts, and Sheep's Head on the south side of Bantry Bay. (1858.) 3*s.*
Explanation published with that of 197. 1*s.*

199. *Bantry.* Part of Cork; includes Bantry, Carrigboy, Skull, and Ballydehob, Dunmanus Bay, Roaring Water Bay, and Mount Gabriel. It also includes the Mining Districts of Derrylomane, Dhurode, Lowertown, Mount Gabriel, Coosheen, Gortnamona, Ballycumisk, Cappagh, Ballydehob, Horse Island, and Castle Island. (18 .) 3*s.*
Explanation published with 200. 1*s.*
Horizontal Sections, Sheets 19 and 21, illustrate this Map.

200. *Skibbereen.* Part of Cork; includes Skibbereen, Castletownsend, Union Hall, Leap, Glandore, and Roscarberry, with the Manganese Mine near Glandore. (1858.) 3*s.*
Explanation published with 199. 1*s.*
Horizontal Section, Sheet 19, illustrates this Map.

201. *Clonakilty.* Part of Cork; includes Clonakilty, Timoleague, Courtmacsherry, Kilbrittain, and Ballinspittle, together with Galley Head, the Seven Heads, and part of the Old Head of Kinsale. (1858.) 3*s.*
Explanation published with 194. 1*s.*

202. *Old Head of Kinsale.* Part of Cork; includes the Coast from the Old Head to the mouth of Kinsale Harbour and Oyster Haven. (1857.) 1*s.* 6*d.*
Explanation published with 194. 1*s.*

203. *Mizen Head.* Part of Cork; includes Mizen Head and Three Castle Head. (1858.) 1*s.* 6*d.*
Explanation published with 199 and 200. 1*s.*

204. *Cape Clear.* Part of Cork; includes Crookhaven, and Brow Head, Clear Island, Baltimore Bay, and the Fastnet Rock. The Lodes of Brow Head, Galley Cove, Crookhaven, Kilbarry, Spanish Cove, and Goleen, are marked on it. (1858.) 1*s.* 6*d.*
Explanation published with 199, 200, and 203. 1*s.*

205. *Toe Head.* Part of Cork; includes Toe Head Bay and Lough Hyne, with Horse Island, the Stags, and Kedge Island. (1858.) 1*s.* 6*d.*
Explanation published with 199, 200, 203, and 204. 1*s.*
Horizontal Section, Sheet 19, illustrates this Map.

COMPLETED COUNTIES.

The Country has been surveyed on the scale of six inches a mile, and the one-inch Maps have been reduced from this Survey.

For particulars see the detailed List of separate Sheets.

The Sheets marked thus (*) have Memoirs.

The Wicklow Mines are described in Part 3 of the "Records of the School of Mines. (See p. .)

CARLOW,—129, *137, 138, *147, 148, *157, 158.

CLARE,—*114, *115, *122–5, *131–4, *140–4.

CORK.—*153, *163–6, *174–7, *185–8, *191–205.

DUBLIN,—*92, *101, *102, *111, *112, 120, 121.

KERRY,—*141, *142, *150–2, *160–3, *171–4, *182–5, *190–3.

KILDARE,—*100, *101, *110, *111, *119, 120, *128, 129, *137, 138.

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KILKENNY,—*136, *137, *146, *147, *156, *157, 167, 168.
KING'S COUNTY,—*108, *109, *110, *117, *118, *119, *126, *127, *135.
LIMERICK,—*134, *142–4, *182–4, *163–5.
LONGFORD,—78, 79, *88, *89, *98, *99.
MEATH,—*81, *90, *91, *92, *100, *101, *102.
QUEEN'S COUNTY,—*118, *119, *126–8, *135–7.
TIPPERARY,—*116, *117, *125–7, *134–6, *144–6, *154–6, *165, *166, *167.
WATERFORD,—*166, *167, 168, *176, *177, 178, 179, *188, *189.
WESTMEATH,—89, 90, *98, *99, *100, *108, *109.
WEXFORD,—138, 139, 148, 149, *157, 158, 159, 168–170, 179–181.
WICKLOW,—120, 121, *129, *130, 138, 139, 148.

Parts of adjacent counties of Louth, Leitrim, Roscommon, Galway, Mayo, Down, Antrim, Armagh, Cavan, Sligo, and Tyrone are also surveyed.

COALFIELDS.

*CASTLECOMER,—128, 137.
*KANTURK,—174, 175.
*KILLENAULE (Tipperary),—146.

II.—SIX-INCH SCALE.

ROSCOMMON — *Sheet* 1, includes the village of Ballyfarna and a small portion of the Arigna coalfield.

Sheet 2, includes the SW. part of Lough Allen and Arigna Old Iron Works, and contains the Arigna coalfield, with coal beds indicated along the outcrop.

LEITRIM - *Sheet* 20, includes SE. part of Lough Allen with a small strip of the Slieve Anierin coalfield overlying the Yoredale beds; also a small portion of the NE. part of the Arigna coalfield also resting on Yoredales.

Sheet 21, includes the Slieve Aniern coalfield, with coal crops indicated. Yoredale beds and Upper Limestone to the SE. and E. of the sheet.

SLIGO - - *Sheet* 35, includes the northern extension of the Arigna coalfield, with outcrop of coal seams marked.

ANTRIM - *Sheet* 41, including Island Magee and Larne Lough. Shows position and probable extent of Pisolitic Iron Ore, Bole, and Lithomarge.

TYRONE - *Sheet* 46, includes the western part of the Tyrone coalfield, also the villages of Donaghmore and New Mills.

Sheet 47, includes Coal Island. Shows the eastern end of the Dungannon Coalfield and outcrops and thickness of coal seams. Also contains part of the western side of Lough Neagh.

Sheet 54, includes Dungannon and Castlecaulfield and the southern end of the Dungannon Coalfield. Shows outcrops and thickness of coalseams.

Sheet 55, includes Laghey Corner and part of the western end of Lough Neagh.

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HORIZONTAL SECTIONS,

On the Scale of Six Inches to One Mile. *Price 5s. each sheet.*

Sheet

1. A continuous Section from the Limestone Plain near Abbeyleix across the Castlecomer Coalfield, to the Granite east of Carlow; with a short Section on the Eastern Side of the Granite, South of Tinahely, in nearly the same line. (1860.) Illustrates Maps 136, 137, 133.

2. A continuous Section from the city of Kilkenny northwards through the Castlecomer Coalfield to the neighbourhood of Athy and the low Silurian ground of the county of Kildare. (1860.) Illustrates Maps 128, 137, 147.

3. A continuous Section from the Limestone Plain between Abbeyleix and Maryborough, over Cullenagh Hill, and thence south-eastwards across the Castlecomer Coalfield to the Valley of the Barrow, south of Old Leighlin, and into the low Granite Country east of Bagnalstown. (1860.) Illustrate Maps 127, 128, 137, 147.

4. A continuous Section from Galley Head, on the coast of Cork, northwards by Macroom and Musheramore, to the Coalfield north of Millstreet; across the inverted synclinal near Galley Head, and the numerous anticlinal and synclinal undulations of the Old Red Sandstone and Carboniferous Slate, to the inverted Old Red Sandstone, Carboniferous Limestone, and Coal Measures between Millstreet and Kanturk. (1860.) Illustrates Maps 174, 185, 193, 200.

5. Section 1. From Flat Head, northwards across the country lying on the western side of Cork Harbour. Section 2. Continuation of No. 1 on a slightly different line across the upper part of Cork Harbour and the River Lee, by Glanmire to Watergrass Hill. Section 3. A Continuation of No. 2, on a slightly different line by Rathcormack and Fermoy. (1860.) Illustrate Maps 195, 187, 176.

6. A continuous Section across the ridge to the westward of the Knockmealdown Hills, and the Mitchelstown Valley, over Galtymore, across the Vale of Aherlow, and the ridge of Slievenamuck to the Oola Hill, and thence to the flanks of the Slieve Phelim Hills. (1860.) Illustrates Maps 144, 154, 163.

7. Section 1. Across the Trappean basin of the County Limerick, from the Cratloe Hills southward through the City of Limerick, over Cahernarry, Ballybrood, and Cromwell's Hill, to a ridge near Emly. Section 2. From Cromwell's Hill, northwards by Kilteely and Caherconlish to Maddyboy. (1860.) Illustrate Maps 143, 144, 154.

8. Section 1. From Uregare, near Bruff, across Knockdirk and Ballybrood to Drumsallagh, Portnard, and the flanks of the Slieve Phelim Hills. Section 2. By Lough Gur, Rawleystown Court, and over Knockroe to Inch. Section 3. From near Ballybrood, eastwards over Pallas Hill. Section 4. From Rockhill to Ballinleeny, county Limerick. Section 5. Across Knockfeerina, county Limerick. (1860.) Illustrate Maps 144, 152, 154.

9. Section 1. Across Keeper Hill and the Silvermines district. Section 2. From Ballyard graveyard, across the Kilmastulla Valley, to the flanks of the Arra Mountains. Section 3. From Carrickallybaun (two miles N. of Killaloe), through Tonigraney, to Drewsborough House. Section 4. From the south slope of the Cratloe Mountains across Slieve Bernagh, by Kilkishen, to Danganville. Section 5. Across the ground between Mauricesmills and Ennis. (1861.) Illustrate Maps 132, 133, 134.

10. Section 1. Across the Slievardagh Coal Field, from near the village called the Four Roads, to the northern flank of the Nine Mile House table land. Section 2. From near the village of New Birmingham, across Earl's Hill Colliery to Wilford House, 2 miles south of the village

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Sheet

of Ballingarry. Section 3. From Littlefield House, two miles south of Gortnahoo, across Foilacamin, Knockanglass Commons, and Boulea Collieries, to a point one mile and a quarter west of Ballingarry. Section 4. From Woodsgift to near the village of Tullaroan. Section 5. From near Johnstown, over Spa Hill. Section 6. From the Hollyford Mines to Marlow, north-west of Clonoulty. (1861.) Illustrate Maps 136, 145, 148, 156.

11. Section 1. Across the Devil's Bit Mountains, from near Toomyvara, to the neighbourhood of Templemore. Section 2. Across the country between the Sleivebloom and Devil's Bit Mountains. Section 3. Over Knockshigowna Hill to the Little Brosna River. Section 4. Across the Sleivebloom range. (1862.) Illustrate Maps 126, 127, 135.

12. Section 1. From near Langley Lodge, across the valley of the Anner River to the top of Slievenaman. Section 2. From Sheepstown cross roads, through Ballyhale, to the Granite south of Thomastown. Section 3. From Stonyford, through Jerpoint, to valley of Arrigle River, south of Mount Argula. Section 4. From Gowran demesne, through Freagh Hill and Brandon Hill, to the River Barrow near Coolhill Castle. Section 5. From the Coal Measures, seen in Moneyfelim River, across the Valley of the Barrow, to the Old Red Sandstone and Granite NE. of Goresbridge. (1862.) Illustrate Maps 147, 156, 157.

13. Section 1. From the neighbourhood of Dungarvan, over the Comeragh Mountains and across the Valley of the Suir, to Poulakerry, near Kilsheelan. Section 2. From Nine Mile House table land, near Boolyglass, through Woodstock demesne and Brandon Hill, to the River Barrow, one mile South of Graiguenamanagh. (1862.) Illustrate Maps 156, 157, 167, 178.

14. Section 1. From Oldtown, through Malahow and Westown, to the Naul. Section 2. From Knightstown Quarry, through Knockbrack Hill, to the Bog of the Ring. Section 3. Across Donabate Promontory. Section 4. Along the coast from shore S. of Rush, through Loughshinny, to shore N. of Skerries. Section 5. Across the Hill of Howth. Section 6. From road one mile S. of Killakee House, through Mountpelier Hill, to Allenton House. Section 7. From the Granite at Three Rock Mountain on the south, to the Limestone at Donnybrook on the north. Section 8. From the Mica Slate and Granite of Killiney and Rochestown Hill to the Limestone on the shore at Blackrock. (1862.) Illustrate Maps 102, 112.

15. Section 1. From Sybil Head to Slea Head, general direction from north to south. Section 2. From Brandon Head, through Mount Brandon, to Bull's Head. Section 3. From Tralee Bay, across Caherconree Mountain, to Castlemaine Harbour. (1862.) Illustrate Maps 160, 161, 171, 172.

16. A continuous Section from Knockadoon Head by Youghal and Lismore, over the Knockmealdown Mountains to the East end of the Galty Mountains. (1862.) Illustrates Maps 156, 166, 177, 188.

17.—No. 1. Through Lisdoonvarna over Slieve Elva to Black Head, Galway Bay. No. 2. From Inchiquin Lough by Crusheen to Slieve Aughta. No. 3. From Ayle to Killanena. No. 4. From Scarriff to Turkenagh. (1864.) Illustrate Maps 114, 123, 124, 125.

18.—No. 1. From Scarriff, across Slieve Aughta by Loughrea, to Dunsandle. No. 2. From Cashlaundramlahan through Keylebeg to Toberdatan. No. 3. From Marblehill to Dalystown. (1864.) Illustrate Maps 115, 116, 124.

19. A continuous Section from Toe Head, by Bantry to Gilgarvan. (1866.) Illustrates Maps 184, 192, 200, 205.

20. A continuous Section across the Kenmare Valley, over Macgillycuddy's Reeks, and the Slievemish Mountains near Tralee. (1865.) Illustrates Maps 162, 173, 184.

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21. Section 1. From Kilgarvan across Mangerton and Torc to Ross Island south of Killarney. Section 2. From the Eastern end of Bere Island across Hungry Hill to the Kenmare River. Section 3. From Rosmore Island, by Coomlimminy Court to Mullaghanatten Mountain. (1866.) Illustrate Maps 173, 183, 184, 191, 192, 199.

22. Section from Annalong, County Down, across the Mourne Mountains and Slieve Croob Range, by Moira to Lough Neagh; showing the Uranitic, Lower Silurian, Triassic, Cretaceous, and overlying Basaltic Rocks. (1873.) Illustrating 36, 48, 60, and 61 one-inch; 13, 20, 21, 28, 29, 36, 43, 49, 53, 56, County Down.

23. Section 1. Across the Mourne Mountains and Slieve Croob to Lough Neagh (continued). Section 2. From Warrenpoint across the Mourne Mountains to the sea at Newcastle, county Down; showing the Lower Silurian, Granitic, and Igneous Rocks. (1874.)

24. Section 1. From Soldier's Point, at the entrance to Carlingford Lough, across the Mourne Mountains to the sea at Newcastle, county Down; showing the Carboniferous Limestone, Lower Silurian, and Granitic Rocks. Section 2. From Killinchy across Scrabo Hill to the sea at Cultra, county Down; showing the Lower Silurian, Carboniferous Limestone, New Red Sandstone, Permian, and Basaltic Rocks. (1874.)

25. Section from Kilkieran Bay on the south to Killary Harbour on the north, crossing Avogh and Bencor Mountains, Connemara; showing Granite, Metamorphic, and Upper Silurian Rocks. (1879.)

26. Section 1. From Killary Harbour to Clew Bay crossing Mweelrea and Croagh Patrick; showing Granitic, Metamorphic, Upper Silurian, and Carboniferous Rocks. Section 2. From Moher Lough to Lough Mask, crossing Slieve Partry Hills; showing Igneous, Metamorphic, Upper Silurian, and Carboniferous Rocks. (1879.)

The following sheets of Horizontal (Longitudinal) Sections were formerly published, and are still to be procured. Price 3*s*. each.

1. Section from the Bilboa Colliery across Croaghan Kinshela to Arklow Rock.
2. Section from Dunlavin, across Lugnaquilla and Croaghan Moira to the sea-coast near Johnstown.
3. Section from Kilcullen, in the county of Kildare, to Mizen Head, in the county of Wicklow.
4. No. 1. Section from Glencree across Sugar Loaf Hill in the county of Wicklow. No. 2. Section from Lough Tay to near Five Mile-Point, in county of Wicklow. No. 3. Section from near Baltinglass to Lugnaquilla, in the county of Wicklow.

Also, a Sheet containing a plan and Sections of the Oveca Mines, in the county of Wicklow.

The Mines of Wicklow and Wexford are described in Vol. I. Part 3, Record of the School of Mines (1853).

VERTICAL SECTIONS.

Sheet of Vertical Sections of 25 Shafts, sunk in the Castlecomer Coalfield, collected and drawn by G. H. Kinahan. (1859.) Price 3*s*. 6*d*.

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121 and 130. By J. Beete Jukes and G. V. Du Noyer. Pal. notes by W. H. Baily. 7 figures, pp. 49. 1869.

122 and 123; *see* 114.

124 and 125. By G. H. Kinahan. 6 figures, pp. 48. 1863. Price 1*s.*

126. By A. B. Wynne. 5 figures, pp. 36. 1862.

127. By J. O'Kelly. Pal. notes by W. H. Baily. 4 figures, pp. 28. 1862.

127 and parts of 128, 136, 137, 145, 146, 147, 155, 156, and 166. By E. T. Hardman, with Pal. notes by W. H. Baily. 23 figures, pp. 96. 1881. 6*s.*

128. By J. Beete Jukes, G. H. Kinahan, and J. O'Kelly. Pal. notes by W. H. Baily. 4 figures, pp. 32.

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129. By W. F. Mitchell. Pal. notes by W. H. Baily. 1 figure, pp. 27.

130; *see* 121.

131 and 132. By F. J. Foote. Pal. notes by W. H. Baily. 4 figures, pp. 21. 1860.

133. By G. H. Kinahan and F. J. Foote. Pal. notes by W. H. Baily. 12 figures, pp. 36. 1862.

134. By G. H. Kinahan and A. B. Wynne. 5 figures, pp. 43. 1861.

135. By J. Beete Jukes and A. B. Wynne. Pal. notes by W. H. Baily. 10 figures, pp. 32. 1860.

136. By F. J. Foote. 4 figures, pp. 14. 1860.

137. By J. Beete Jukes and G. H. Kinahan. Pal. notes by W. H. Baily. 17 figures, pp. 51. 1859.

140 and 141. By F. J. Foote. Pal. notes by W. H. Baily. 4 figures, pp. 16. 1860.

142. By G. H. Kinahan and F. J. Foote. Pal. notes by W. H. Baily. 15 figures, pp. 41. 1860.

143. By G. H. Kinahan. Pal. notes by W. H. Baily. 4 figures, pp. 35. 1860. 1*s.*

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146. By F. J. Foote and J. O'Kelly. Pal. notes by W. H. Baily. 3 figures, pp. 32. 1861. 1*s.*

147 and 157. By J. Beete Jukes. Pal. notes by W. H. Baily. 8 figures, pp. 59. 1860. 1*s.*

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153. By J. Beete Jukes, G. H. Kinahan, and J. O'Kelly. Pal. notes by W. H. Baily. 4 figures, pp. 29. 1861. 1*s.*

154. By J. Beete Jukes and J. O'Kelly. 3 figures, pp. 28. 1861. 1*s.*

155. By J. Beete Jukes, G. V. Du Noyer, J. O'Kelly, and A. B. Wynne. 4 figures, pp. 22. 1860. 1*s.*

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157; *see* 147.

158. By G. H. Kinahan, with Pal. notes by W. H. Baily. 6 figures, pp. 43. 1882. Price .

159; *see* 158.

160, 161, 171, and 172. By J. Beete Jukes and G. V. Du Noyer. 9 figures, pp. 49. 1863. 1*s.*

162. By F. J. Foote. Pal. notes by W. H. Baily. 4 figures, pp. 16. 1859. 1*s.*

163, 174, and part of 175. By J. Beete Jukes, G. H. Kinahan, and F. J. Foote. 7 figures, pp. 32. 1861. 1*s.*

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166. By J. Beete Jukes, G. V. Du Noyer, and A. B. Wynne. 5 figures, pp. 27. 1858. 1*s.*

167, 168, 178, and 179. By G. V. Du Noyer. 10 figures, pp. 94. 1865. 1*s.*

169, 170, 180, 181. By G. H. Kinahan, with Pal. notes by W. H. Baily. 6 figures, pp. 63. 1879. 2*s.* 9*d.*

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171 and 172; *see* 160 and 161. 1*s.*

173. By G. V. Du Noyer and F. J. Foote. 5 figures, pp. 25. 1861. 1*s.*

174; *see* 163. 1*s.*

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178 and 179; *see* 167. 1*s.*

182, 183, and 190, and parts of 172 and 191. By G. H. Kinahan and A. B. Wynne. Pal. notes by W. H. Baily. 6 figures, pp. 34. 1861. 1*s.*

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185 and 186. By J. Beete Jukes and G. V. Du Noyer. 14 figures, pp. 35. 1861. 1*s.*

187, 195, and 196. By J. Beete Jukes. Pal. notes on these and sheets 176, 177, 186, 188, 189, 194, 201, and 202, by W. H. Baily. 11 figures, pp. 60. 1864. 1*s.*

188 and 189. By A. B. Wynne. 6 figures, pp. 21. 1861. 1*s.*

190; *see* 182. 1*s.*

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192 and 199. By J. Beete Jukes. Pal. notes on these and sheets 191, 193, 198, 200, and 205, by W. H. Baily. 15 figures, pp. 48. 1864. 1*s.*

193. By G. V. Du Noyer. 4 figures, pp. 20. 1861.

194, 201, and 202. By J. Beete Jukes and G. V. Du Noyer. 5 figures. pp. 27. 1862.

195 and 196; *see* 187.

197 and 198. By J. Beete Jukes, G. H. Kinahan, and J. O'Kelly. Pal. notes by W. H. Baily. 8 figures, pp. 32. 1860.

199, 200, 203, 204, and 205. By J. Beete Jukes and G. H. Kinahan. 6 figures, pp. 28. 1861.

201 and 202; *see* 194.

203, 204, and 205; *see* 199.

GENERAL MEMOIR. 8vo.

Report on the Geology of the County of Londonderry, and of parts of Tyrone and Fermanagh, by General J. E. Portlock, R.E., F.R.S., &c. With large Maps, Sections, Plates, &c. 1843. Price 14*s.*

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GEOLOGICAL SURVEY MAP OF SCOTLAND.

1.—ONE-INCH SCALE.

Sheet

1. WIGTOWNSHIRE.—Contains the southern half of the promontory ending in the Mull of Galloway. 1871. 4*s*.
2. WIGTOWNSHIRE.—The promontory of Burrow Head, northwards to about a mile and a half beyond Whithorn. 1872. 4*s*.
3. WIGTOWNSHIRE.—Coast-line from Corsewall Lighthouse to beyond Ardwell Point, and from Portacree to mouth of Water of Luce, including Loch Ryan, Stranraer, Port-Patrick, and valley of the Luce to near its source. 1871. 6*s*.
4. WIGTOWNSHIRE AND KIRKCUDBRIGHT.—Contains the eastern half of Wigtownshire and a portion of the south-west of Kirkcudbright, from Glenluce on the west, to near Gatehouse of Fleet on the east; and from Peninghame House on the north to Monreith House on the south; including the towns of Wigtown, Newton-Stewart, and Creetown. 1877. 6*s*.
5. KIRKCUDBRIGHT.—Embraces all that part of the county which lies between Gatehouse of Fleet on the west and Criffel on the east, and between Kirkpatrick-Durham on the north and the sea coast on the south; including the town of Kirkcudbright, with Castle-Douglas, Dalbeattie, and New Abbey. 1879. 6*s*.
6. DUMFRIES AND KIRKCUDBRIGHT.—Contains the extreme south-eastern edge of Kirkcudbright, from Southernness Point to near New Abbey, and the southern margin of Dumfriesshire, bordering on the Solway Firth, from the mouth of the river Nith to the English border at the river Sark; including Annan, Gretna-Green, Cummertrees, and Kirkbean. 1879. 4*s*.
7. AYRSHIRE.—Coast-line from Girvan to the Mouth of Loch Ryan, with lower portion of Stinchar Valley, Glen App, and Ailsa Craig. 1867. 6*s*.
8. KIRKCUDBRIGHT, AYRSHIRE, AND WIGTOWNSHIRE.—[*Engraving.*]—Embraces the district extending from near Girvan eastward to Cairnsmore of Carsphairn, and southwards to the Wigtownshire Moors, Talnotry, and the foot of Loch Grennoch; and including the highest ground in the south of Scotland, with the upper courses of the Doon, Girvan, Stinchar, Deugh, Cree, and Dee.
9. KIRKCUDBRIGHT AND DUMFRIESSHIRE.—Contains the district stretching from Cairnsmore of Carsphairn, eastward by Shinnelhead and Carronbridge to the upper part of the Capel Water, southwards to the foot of Loch Ken, Kirkpatrick Durham, and Lochaber Loch; including part of the town of Dumfries, Thornhill, Moniaive, New Galloway, with the valley of the Nith from Drumlanrig to Dumfries, and those of the Cairn, Urr, and Ken waters. 1874. 6*s*.
10. DUMFRIESSHIRE.—[Engraving.]—Contains the south-eastern part of this county, from the town of Dumfries on the west to Langholm on the east, and from the Blue Cairn and Eskdalemuir Church on the north to the south end of Lochar Moss, Kelhead, and the neighbourhood of Gretna-Green on the south; including Lockerbie, Ecclefechan, and parts of the valleys of the Annan, Nith, and Esk.

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11. ROXBURGHSHIRE AND DUMFRIESSHIRE. — Contains the extreme southern part of Roxburghshire, and a strip of the south-eastern margin of Dumfriesshire, extending from the valley of the Esk on the west, to the English border between the foot of the Liddel and Fairloans; including Langholm, New Castleton, Canobie, and the valley of the Liddel from near Riddings Junction to the Esk. 1883. 4*s*.

13. AYRSHIRE.—Coast-line north of Girvan to Turnberry Point. 1867. 4*s*.

14. AYRSHIRE.—Coast-line from Troon to Culzean, and inland to Sorn, Old Cumnock, and Cairnsmore of Carsphairn, including Ayr, Mauchline, Ochiltree, Maybole, Dailly, and Dalmellington, with the valleys of the Ayr, Lugar, Doon, and Girvan. 1868. 6*s*. Illustrated by Horizontal Sections 4, 5.

Six-inch Coal-field Sheets included in this Map.

AYRSHIRE —27, 28, 29, 33, 34 (Prestwick, Ayr, Sorn, and Coylton).
40 (Patna 41).
46. 47 (Dalmellington); 50 (Dailly); 52 (S. of Dalmellington).
35 (Cumnock).
Published.

15. DUMFRIESSHIRE, LANARKSHIRE, AND AYRSHIRE. — Embraces the district from Aird's Moss, eastward to Clyde below Abington, and southward to head of Afton Water, Drumlanrig Castle, and west side of Queensberry; including Muirkirk, Crawfordjohn, New Cumnock, Sanquhar, Leadhills, and Durisdeer, with upper parts of the valleys of the Ayr, Clyde, and Nith. 1870. 6*s*. Illustrated by Horizontal Section 9.

Six-inch Coal-field Sheets included in this Map.

Ayrshire.—30, 31, 36, 41, 42 (Muirkirk and Cumnock coalfields).
Dumfriesshire.—1, 5, 6 (Sanquhar coalfield), 7 (Wanlockhead mineral-field).
Lanarkshire.—49 (Leadhills mineral-field).
Published.

16. DUMFRIESSHIRE, SELKIRKSHIRE, PEEBLESHIRE, LANARKSHIRE, AND ROXBURGSHIRE.—[*Engraving.*]—Embraces the high grounds in which the Tweed, Yarrow, Ettrick, Esk, Annan, and Clyde take their rise; including St. Mary's Loch, Ettrick, Tweedsmuir, Moffat, Eskdalemuir, and the upper feeders of the Borthwick Water.

17. ROXBURGHSHIRE, SELKIRKSHIRE, AND DUMFRIESSHIRE. — Contains the district which is bounded on the north by a line drawn from near Ettrickbridgend by Lilliesleaf, Ancrum, and Crailing, to near Morebattle; on the west by a line from Ettrickbridgend to Pitkethan Hill near Mosspaul; and on the south by Riddings Junction, on the North British Railway; and on the east by the Cheviot Hills, and a line drawn from Hungry Law to near Morebattle; it includes Hawick, Jedburgh, with nearly the whole of the vale of the Teviot, and its tributaries the Oxnam, Jed, Rule, Slitrig, Borthwick, and Ale. 1883. 6*s*. Illustrated by Horizontal Section 7.

18. ROXBURGHSHIRE.—Contains the north eastern end of the Cheviot Hills, the valleys of the Kale and Bowmont, and most of the Parishes of Hounam and Morebattle. 1883. 4*s*. Illustrated by Horizontal Section 7.

22. AYRSHIRE AND RENFREWSHIRE.—Embraces the district which extends from the hills above Largs, eastward to Carmunnock, and southward to Troon and Blackside Hill above Sorn; including Beith, Eaglesham, Dalry, Ardrossan, Irvine, Kilmarnock, and Galston; with valleys of the Irvine, Garnock, and White Cart. 1870. 6*s*. Illustrated by Horizontal Sections 4, 5, 6, 8.

Six-inch Coal-field Sheets included in this Map.

Ayrshire.—7, 8, 9, 11, 12, 13, 16, 17, 18, 19, 22, 23, 24, 27, 28, 29.
Renfrewshire.—14, 15, 16, 17.
Lanark.—16.
Published.

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23. LANARKSHIRE.—Embraces the district which extends from near East Kilbride, eastwards to Auchengray, and southwards to near Muirkirk, Douglas Water, and Roberton; including Lanark, Hamilton, Wishaw, Strathaven, Lesmahagow, Carluke, Wilsontown, Carnwath, Thankerton, and Douglas, with valley of Clyde from Roberton to Hamilton Palace. 1872. 6*s*. Illustrated by Horizontal Sections 8, 9.

Six-inch Coal-field Sheets included in this Map.

Lanarkshire.—10, 11, 16, 17, 18, 19, 23, 24, 25.
Ayrshire.—26, 30, 31.
Lanarkshire.—12, 13.
} *Published.*

24. PEEBLESSHIRE.—Embraces the district which extends from near Cobinshaw Reservoir, eastward by Carlops and Leadburn to Moorfoot Hills, and southward to head of Lamington Burn, Polmood Hill, Dollar Law, and Yarrow Manse; including West Linton, Peebles, Innerleithen, Dunsyre, Biggar, and Symington; with the Medwin, Lyne, Eddleston, and Manor Waters, and the valley of the Tweed from Polmood to Caberstone Tower. 1868. 6*s*. Illustrated by Horizontal Section 3.

25. BERWICKSHIRE, ROXBURGHSHIRE, SELKIRKSHIRE, AND EDINBURGHSHIRE.—Embraces the district from near Heriot on the west to near Duns on the east, southwards to the neighbourhood of Bowhill, Selkirk, Ancrum, and Eckford; including Lauderdale, with parts of the valleys of the Tweed, Gala, Ettrick, and Teviot, with Galashiels, Melrose, Selkirk, Kelso, and Greenlaw. 1879. 6*s*. Illustrated by Horizontal Section 7.

26. BERWICKSHIRE AND ROXBURGHSHIRE. — Embraces the district from Duns eastwards to Berwick-on-Tweed, and southwards to Kirk-Yetholm; including the valley of the Tweed from its mouth to a point about two miles above Birgham. 1883. 4*s*. Illustrated by Horizontal Section 7.

30. RENFREWSHIRE, WITH PARTS OF DUMBARTONSHIRE, STIRLINGSHIRE, LANARKSHIRE, AND AYRSHIRE.—Contains the area which stretches from near the head of the Gareloch, by the foot of Loch Lomond to Fintry, and southwards to near Largs, Lochwinnoch, and Carmunnock; including Glasgow, Paisley, Greenock, Helensburgh, Dumbarton, Strathblane, with the lower part of the valley of the Clyde. 1878. 6*s*. Illustrated by Horizontal Sections 6, 8. Vertical Section 4.

Six-inch Sheets included in this Map.

Lanark.—1, 5, 6, 10.
Renfrew.—7, 8, 11, 12, 13.
Dumbarton.—23, 24, 28, 29.
Stirling.—27, 32.
} *Published.*

31. *Parts of* LANARKSHIRE, STIRLINGSHIRE, DUMBARTONSHIRE, LINLITHGOWSHIRE, AND EDINBURGHSHIRE.—Embraces the district of central Scotland, which extends from Fintry to Borrowstounness, southwards to Bothwell, Motherwell, and Levenseat; including the eastern suburbs of Glasgow, and western half of Linlithgow, Airdrie, Coatbridge, Bathgate, Falkirk, and Kirkintilloch. 6*s*. 1875. Illustrated by Horizontal Section 8. Vertical Sections 4, 5.

Six-inch Sheets included in this Map.

Lanark.—1, 2, 3, 4, 6, 7, 8, 9, 10, 11.
Dumbarton.—19*a*, 20, 24, 25, 26.
Stirling.—23, 24, 25, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36.
Lanark.—12, 13.
Linlithgow.—8.
} *Published.*

32. EDINBURGHSHIRE AND LINLITHGOWSHIRE.—Embraces the district from Bo'ness to Prestonpans, southwards to Cobinshaw Reservoir, south end of Pentland Hills, and northern edge of Moorfoot Hills; including the

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portion of Fife from Torryburn to Aberdour, Inverkeithing, Inchkeith, Edinburgh, Linlithgow, Musselburgh, Dalkeith, Penicuik, and Midcalder. 1859. 6*s*. Illustrated by Horizontal Sections 1, 2, 3. Vertical Section 1.

Six-inch Sheets included in this Map, and embracing the Mid-Lothian Coal-field.

Edinburgh.—2 (Edinburgh and Arthur's Seat), 3, 6, 7, 12. 13, 17, and 18. *Published.*

A descriptive Memoir of this Sheet, and Horizontal Sections across it, are published.

33. HADDINGTONSHIRE.—Embraces the district from Prestonpans to Dunglass, and from near North Berwick southwards to head of Lauderdale and Dirrington Law; including the Lammermuir and Garlton Hills; with Haddington, Aberlady, East Linton, Dunbar, Oldhamstocks, Longformacus, and Fala. 1860. 6*s*. Illustrated by Horizontal Sections 1, 2. Vertical Section 1.

Six-inch Coal-field Sheets included in this Map, and embracing East Lothian Coal-field.

Edinburgh.—8 and 14.
Haddington.—8, 9, 13, and 14. } *Published.*

A descriptive Memoir of this Map, and Horizontal Sections across it, are published.

34. EASTERN BERWICKSHIRE.—Embraces the coast-line from Cockburnspath to near Berwick-on Tweed and inland to Dunse Law, including St. Abb's Head and lower portion of Whiteadder valley. 1863. 4*s*.

A descriptive Memoir of this Map is published.

39. PERTHSHIRE, CLACKMANNANSHIRE, STIRLINGSHIRE, AND FIFE.—Embraces the district between Callander and Handen Moss on the west and the Pool of Muckart and Culross on the east; including Stirling, Alloa, Kincardine-on-Forth, Dollar, Auchterarder, Dunblane, Bridge of Allan, and Kippen, with the lower portion of the river Forth, the valleys of the Teith, Devon, Allan, part of the south-western Grampian chain, the south-western end of the chain of the Ochil Hills, and the north-eastern end of the ridge of the Campsie Fells. 1882. 6*s*.

Six-inch Coal-field Sheets included in this Map,

Stirling.—17, 18, 23, 34.
Perth and Clackmannan.—133, 134, 135, 139, 140, 141, 142, 143. } *Published.*

40. FIFE AND KINROSS.—Embraces the district from Dunning, in Perthshire, eastward to Ceres Moor and southwards to Firth of Forth; including the Lomond Hills, eastern part of the Ochils, Loch Leven, Kinross, Auchtermuchty, Falkland, Markinch, Leven, Dysart, Kirkcaldy, Burntisland, and Dunfermline. 1867. 6*s*.

Six-inch Coal-field Sheets included in this Map.

Fife.—24, 25, 30, 31, 32, 33, 35, 36, and 37. *Perth*.—135. *Published.*

41. FIFE.—Embraces the eastern part of the county from Ceres to Fife-Ness, and the coast-line from Fife-Ness westward to Largo Bay; also northern edge of Haddingtonshire on each side of North Berwick; including Isle of May, Bass Rock, North Berwick Law, Largo Law, Elie, and Anstruther. 1861. 6*s*.

48. PERTHSHIRE, FORFARSHIRE, AND FIFE.—[*Engraving*.]—Embraces the district enclosed within a line drawn from Dunkeld and Methven on the west to Dundee and Cupar-Fife on the east, and from the vicinity of Cupar-Angus on the north to Monimail and Dron Hill on the south; including Perth, Dundee, Dunkeld, Scone, Newburgh, Abernethy, and Forteviot, with the valley of the Tay from Dunkeld to the Tay Bridge, the Sidlaw Hills, Carse of Gowrie, and eastern portion of the Ochil Hills.

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49. FORFARSHIRE AND FIFE.—[*Engraving.*]—Contains the south-east part of Forfarshire from Dundee to Arbroath, and the north-east part of Fife from near Kingsbarns to Newport; including part of Dundee, Broughty-Ferry, Carnoustie, St. Andrews, and Ferry-Port-on-Craig, with the Estuary of the Tay from the Tay Bridge to the Bell Rock.

57. FORFARSHIRE AND KINCARDINESHIRE.—[*Engraving.*]—Contains the eastern division of Forfarshire and the southern extremity of Kincardine, embracing the sea-coast from near Arbroath northwards to Johnshaven, with the district which stretches westward to near Glamis, Kirriemuir, Cortachy, and the Grampian range at Dog Hillock; including Forfar, Montrose, Brechin, St. Vigeans, Edzell, with the valley of the South Esk from Cortachy Castle to the sea.

57A. KINCARDINESHIRE.—Contains a small corner of the seaboard of the county between Johnshaven and Gourdon. 1881. 4*s*.

67. KINCARDINESHIRE AND ABERDEENSHIRE.—Contains the eastern part of the county between the sea-coast and a line drawn from near the Manse of Drumoak to near Gourdon; including a small part of the valley of the Dee, with Stonehaven and the coast villages of Findon, Portlethen, Crawton, Inverbervie, and Gourdon. 1881. 4*s*.

87. ABERDEENSHIRE AND BANFFSHIRE. — [*Engraving.*] — Contains detached portions of Banffshire and the eastern part of the county of Aberdeen between the sea-coast and a line drawn from near Croft of Corthiemoss on the north to Reivesley on the south; including Peterhead, Ellon, New Pitsligo, and Strichen.

95. ELGINSHIRE.—[*Engraving.*]—Contains the northern part of the county between the sea-coast on the north and a line drawn between Tarras on the west to the Hill of Stonyslacks on the east; including Elgin, Fochabers, Burghead, Lossiemouth, Buckie, and Speymouth.

97. ABERDEENSHIRE AND BANFFSHIRE.—Contains the north-eastern part of the county of Aberdeen and a small portion of the east of Banffshire, from the sea-coast to a line drawn on the south between Little Blyth and Rattray Head, including Fraserburgh, Rosehearty, and New Aberdour. 1881. 4*s*.

Sheets 47, 66, 76, 77, 96, parts of the counties of Perthshire, Kincardineshire, Aberdeenshire, and Banffshire, are in preparation.

COALFIELDS.

Illustrated by the following One-inch Maps:

AYRSHIRE,—7, 13, 14, 15, 22, 23.

DUMBARTON,—30, 31.

DUMFRIES,—15.

EDINBURGH,—24, 32, 33.

FIFE and KINROSS,—40, 41.

HADDINGTON,—32, 33.

LANARK,—15, 22, 23, 31.

LINLITHGOW,—31, 32.

PERTH AND CLACKMANNAN,—39, 40.

RENFREW,—22, 30.

STIRLING,—30, 31, 39.

For Sections illustrating these Sheets, and for corresponding six-inch Sheets, see detailed lists. Descriptions of the Coalfields will be found in the explanations to accompany the one-inch Maps.

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II.—SIX-INCH SCALE.

Illustrating the Coalfields.

EDINBURGH.

Sheet

2.—(32.*) Edinburgh, Leith, Arthur's Seat, Corstorphine Hill, Granton. 1864. 6*s*.

3.—(32.) Portobello, Musselburgh. 1861. 4*s*.

6.—(32.) Edinburgh (south side), Slateford, Gilmerton, Pentland Hills (north end), Braid Hills, Craiglockhart Hill. 1864. 6*s*.

7.—(32.) Dalkeith, Inveresk, Cousland, Lasswade, Edmonstone. 1861. 6*s*.

8.—(33.) Prestonhall. 1861. 4*s*.

12.—(32.) Penicuik, Roslin, Loanhead, Pentland Hills (central part). 1864. 6*s*.

13.—(32.) Lasswade, Roman Camp Hill, Oxenford Castle, Crichton, Borthwick, Whitehill. 1861. 6*s*.

14.—(33.) Pathhead, Fala. 1861. 4*s*.

17.—(32.) Carlops Bridge, North Esk Reservoir, Cairn Hills. 1864. 4*s*.

18.—(32.) Howgate, Mount Lothian, Leadburn, Auchencorth Moss, Penicuik House, Brunston. 1861. 6*s*.

HADDINGTONSHIRE.

8.—(33.) Prestonpans. 1862. 4*s*.

9.—(33.) Tranent, Cockenzie, Longniddry, Letham, Gladsmuir, Penston. 1861. 6*s*.

13.—(33.) Elphinstone. 1863. 4*s*.

14.—(33.) Ormiston, Pencaitland, Salton. 1861. 6*s*.

LINLITHGOW.

8.—(31.) Polkemmet, Barbauchlaw, Blawhorn Moss. 1878. 4*s*.

9.—(31, 32.) [MS.†] Bathgate, Polkemmet, Blackburn, Drumcross.

11.—(31.) [MS.] Fauldhouse, Benhar, Polkemmet Moor.

12.—(31, 32.) [MS.] Longridge, Foulshiels, Crofthead, Breich.

FIFE.

24.—(40.) Markinch, Kennoway, Leslie House. 1863. 6*s*.

25.—(40 and 41.) Leven, Largo, Durie. 1865. 6*s*.

30.—(40.) Blairadam, Kelty, Cleish, Loch Glow, Roscobie Hills. 1868. 6*s*.

31.—(40.) Lochgelly, Auchterderran, Clunie Collieries. 1868. 6*s*.

32.—(40.) Dysart, Wemyss, Pathhead, Thornton Junction. 1862. 6*s*.

33.—(40.) Buckhaven. 1863. 4*s*.

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* The numbers within parentheses indicate the sheets of the one-inch map in which the six-inch sheets are included.

† Sheets marked [MS.] will not be published, but MS. copies of them can be supplied on the conditions stated on p. .

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35.—(40.) Dunfermline Loch Fitty, Halbeath, Cuttlehill, Fordel, Elgin Collieries. 1868. 6*s*.

36.—(40.) Burntisland, Auchtertool, Cullalo Hills, Donibristle and Cowdenbeath Collieries. 1868. 6*s*.

37.—(40.) Kirkcaldy, Kinghorn. 1862. 4*s*.

AYRSHIRE.

7.—(22.) Kilbirnie, Swinlees, Borestone; valleys of the Garnock, Rye, and Caaf Waters; Crosbie and Fairlie Hills. 1872. 6*s*.

8.—(22.) Beith, Kilbirnie Loch, Barkip, Caldwell; upper portions of Dusk and Lugton Waters. 1872. 6*s*.

9.—(22.) Northern parts of Dunlop and Stewarton Parishes. 1872. 4*s*.

11.—(22.) Dalry, Blair Park, Ashgrove Loch, Smithstone, Crosbie Hills, Boydston, River Garnock from Rye Water to near Kilwinning. 1871. 6*s*.

12.—(22.) Dunlop, Swindridgemuir, Auchentiber, Mountgreenan, Lainshaw, valleys of Lugton, Dusk, and Annick Waters. 1870. 6*s*.

13.—(22.) Stewarton, Fenwick, Dunlop House, Glenouther Moor; Annick, Drumter, Fenwick, and Crawfurdland Waters. 1869. 6*s*.

16.—(22.) Ardrossan, Saltcoats, Stevenston, Kilwinning, Irvine. 1869. 6*s*.

17.—(22.) Irvine, Eglinton, Dreghorn, Kilmaurs, Annick Lodge. 1871. 6*s*.

18.—(22.) Kilmarnock, Hurlford, Galston, Alton, Moscow; Waters of Carmel, Fenwick, and Crawfurdland. 1869. 6*s*.

19.—(22.) Newmilns, Darvel, Lanfine, Loudoun Castle, Mucks and Glen Waters. 1868. 6*s*.

22.—(22.) Troon, Dundonald, Symington, Caprington Castle, Shewalton. 1871. 6*s*.

23.—(22.) Riccarton, Craigie, Galston (south part of), Treesbank, Dollars, Milrig, valley of Cessnock Water. 1870. 6*s*.

24.—(22.) Cessnock Castle, Blackside Hills, Distinkhorn, Auchmannoch Muir, Bruntwoodhill. 1869. 6*s*.

26.—(23 and 15.) Glenbuck, Priesthill, Goodbush Hill, Ponesk Water. 1868. 4*s*.

27.—(14.) Troon, Monkton, Prestwick, Rosemount, Barnweill Church. 1868. 6*s*.

28.—(14.) Tarbolton, Mauchline, Barnweill, Enterkine Mill, Barskimming; River Ayr from Enterkine to Lugar Water. 1868. 6*s*.

29.—(14.) Sorn, Catrine, Blackside-end, Auchmillan, Aird's Moss; Valley of River Ayr from Peel Craigs to near Barskimming Bridge. 1870. 6*s*.

30.—(15 and 23.) Aird's Moss, Valley of Ayr from Muirkirk to Upper Heilar, Greenock Water from Mansfield to River Ayr. 1869. 6*s*.

31.—(15 and 23.) Muirkirk, River Ayr from Muirkirk to source, Garpel Water, Cairn Table. 1868. 4*s*.

33.—(14.) Ayr, Greenan Castle, St. Quivox, Auchencruive, Loch Martnaham; River Ayr from mouth to near Gadgirth,—mouth of River Doon. 1868. 6*s*.

34.—(14.) Coylton, Stair, Gadgirth, Martnaham Loch, hills west of Ochiltree. 1868. 6*s*.

35.—(14.) Old Cumnock, Ochiltree, Auchinleck, Lugar Ironworks. 1871. 6*s*.

36.—(15.) Grieve Hill, Gass Water and Cronberry Collieries, Glenmore Water. 1868. 6*s*.

40.—(14.) Patna Coalfield (north end), Craigs of Kyle, Martnaham Loch. 1868. 6*s*.

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41.—(14.) Dalleagles, Lanemark, Carsgailoch Hill; River Nith from Cairn Hill to near Little Rigend; Burnock Water. 1869. 6*s*.

42.—(15.) New Cumnock, Corsoncone Hill, valleys of Nith and Afton. 1868. 6*s*.

46.—(14.) Dalmellington, Waterside, Patna. 1868. 6*s*.

47.—(14.) District between Dalmellington and new Cumnock, Benbeoch, Benbane, source of Nith, Cumnock Water. 1868. 6*s*.

50.—(14.) Dailly, Dalquharran, Kilkerran, Dalzellolie, Bargeny, Killochan, Littleton. 1868. 6*s*.

52.—(14.) Berbeth, Tairlaw, Girvan Water, Loch Doon (lower end), Loch Finlas. 1869. 6*s*.

RENFREWSHIRE.

7.—(30.) Kilmalcolm, Bishopton, Bridge of Weir, Houston. 1874. 6*s*.

8.—(30.) Renfrew, Middle Church Parish (Paisley), Jordanhill. 1874. 6*s*.

11.—(30.) Kilbarchan, Johnstone, Castlesemple, Howwood, Quarrelton. 1874. 6*s*.

12.—(30.) Paisley, Barrhead, Hurlet, Gleniffer Braes. 1874. 6*s*.

13.—(30.) Pollockshields, Pollockshaws, Cathcart, Thornliebank. 1870. 4*s*.

14.—(22, 30.) Maich Water, Kerse, Glenlova (near Lochwinnoch). 1874. 4*s*.

15.—(30, 22.) Lochwinnoch, Lochlibo, Lugton Bridge. 1874. 6*s*.

16.—(22, 30.) Lochliboside Hills, Neilston, Mearns Muir. 1870. 6*s*.

17.—(22—30.) Eaglesham, Mearns, Busby, White Cart Water. 1869. 4*s*.

DUMBARTONSHIRE.

19a.—(31.) Nether Croy, Dullatur House. 1874. 4*s*.

20.—(31.) Castlecary Station, Netherwood Colliery. 1874. 6*s*.

23.—(30.) Kilpatrick Hills, Douglas Muir, Dalmuir, Duntocher, Garscadden, New Kilpatrick. 1874. 6*s*.

24.—(30, 31.) Kirkintilloch, Killermont. 1874. 4*s*.

25.—(31.) Kirkintilloch, Shirva, Waterside. 1874. 6*s*.

26.—(31.) Cumbernauld, Fannyside Muir. 1874. 4*s*.

28, including 29.—(30.) Garscube Iron-works, Blairdardie Colliery. 1870. 4*s*.

LANARKSHIRE.

1.—(30.) Bishop Briggs, Cadder, course of Kelvin from Maryhill to near Kirkintilloch. 1869. 4*s*.

2.—(31.) Chryston, Garnkirkhouse, Campsie Junction. 1874. 4*s*.

3.—(31.) Rigend, Greengairs, Luggiebridge, Claddens. 1874. 4*s*.

4.—(31.) Black Loch, Auchengray Tile Works. 1874. 4*s*.

5.—(30.) Drumoyne, Whiteinch. 1870. 4*s*.

6.—(30.) Glasgow, Govan, Maryhill. 1870. 6*s*.

7.—(31.) Coatbridge, Baillieston, Shettleston. 1874. 6*s*.

8.—(31.) Airdrie, Calderbank, Gartness. 1874. 6*s*.

9.—(31.) Kirk of Shotts, Harthill, Hillend Reservoir. 1874. 6*s*.

10.—(22, 23, 30, 31.) Rutherglen, Carmunnock. 1870. 4*s*.

11.—(23, 31.) Cambuslang, Blantyre, Bothwell, Bellshill. 1874. 6*s*.

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12.—(23, 31.) Motherwell, Holytown, Newarthill, Cleland, Newmains. 1874. 6*s*.

13.—(23, 31.) Shotts Iron Works, Bonkle. 1874. 6*s*.

14 and 15. [MS.]—(31.) Cobinshaw, Climpy.

16. (22, 23.)—East Kilbride, White Cart Water, Busby Print Works. 1874. 6*s*.

17.—(23.) Hamilton, East Kilbride. 1874. 6*s*.

18.—(23.) Wishaw, Dalserf, Larkhall, Coltness Ironworks. 1874. 6*s*.

19.—(23.) Carluke, Morningside, west edge of Carstairs Parish. 1874. 6*s*.

20.—(23, 24.) Forth, Wilsontown, Auchengray, Stalashaw Moss. 1878. 6*s*.

23.—(23.) Strathaven, West Quarter, Glassford Parish, and east end of East Kilbride Parish. 1874. 6*s*.

24.—(23.) Stonehouse, Clyde at Milton-Lockhart and Nethanfoot, Nethan Water, Auchenheath, Glassford Bridge. 1874. 6*s*.

25.—(23.) Lanark, Crossford, Braidwood, Kilcadzow. 1874. 6*s*.

31.—(23.) Lesmahagow, south edge of Auchenheath Coal-field, Nethan and Logan Waters. 1870. 6*s*.

32.—(23.) North-east part of Douglas Coalfield, Clyde from Lanark Mills to Carmichael Mill, Broken Cross Muir, Lower part of Douglas Water. 1870. 6*s*.

37.—(23.) North-west part of Douglas Coalfield, Nutberry Hill, north-east edge of Muirkirk Coal-field. 1871. 6*s*.

38.—(23.) Douglas, Tinto Hill, lower part of Poniel Water. 1871. 6*s*.

41.—(15, 23.) South-west part of Douglas Coalfield, Cairn Table, Kennox Water, Parishholm, Glespin. 1871. 6*s*.

42.—(15, 23.) Crawfordjohn, south-east part of Douglas Parish, Roberton Law. 1871. 6*s*.

49.—(15.) Leadhills Mineral Field, Lowther Hills. 1871. 6*s*.

DUMFRIESSHIRE.

1.—(15.) Northern edge of Sanquhar Coal-field. 1870. 4*s*.

5.—(15.) Kirkconnel, north-western half of Sanquhar Coalfield. 1870. 6*s*.

6.—(15.) Sanquhar. 1870. 6*s*.

7.—(15.) Wanlockhead Mineral Field, East Lowther Hill. 1870. 6*s*.

STIRLINGSHIRE.

17.—(39.) Stirling, St. Ninians, Bannockburn. 1875. 6*s*.

18.—(39.) Airth, Polmaise. 1875. 6*s*.

23.—(31.) Denny, Loch Coulter. 1875. 6*s*.

24.—(31, 39.) Carron Ironworks, Falkirk Ironworks, Plean, Larbert, Airth, part of Grangemouth. 1875. 6*s*.

25.—(31.) Grangemouth. 1875. 4*s*.

27.—(30, 31.) Strathblane, Campsie, Lennoxtown, Mugdock, Strathblane Hills, Craigend Muir. 1875. 6*s*.

28.—(31.) Lennoxtown, Milton, Kilsyth, Campsie, and Kilsyth Hills. 1875. 6*s*.

29.—(31.) Dennyloanhead, Coneypark Coal-field, Banton, Townhead Reservoir. 1875. 6*s*.

30.—(31.) Falkirk, Bonnybridge, Redding Colliery, Darnerg Muir. 1875. 6*s*.

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31.—(31.) Polmont, Redding, Almond Ironworks, Muiravonside. 1875. 6*s*.
32.—(30, 31.) Milngavie, Baldernock, Balmore, Torrance. 1875. 6*s*.
33.—(31.) River Kelvin, Carlston, Balquharrage, Inchbelly. 1875. 4*s*.
35. including 34.—(31.) Slamannan, Avonbridge, Black Loch. 1875. 6*s*.
36.—(31.) Candiehouse, Blackstone. 1874. 4*s*.

PERTH AND CLACKMANNAN SHIRES.

133.—(39.) Alva, Menstrie, Blair Logie, Airthrey, Abbey Craig, Dumyat Hill. 1878. 6*s*.
134.—(39.) Dollar, Tillicoultry, Muckart Mill, Vicar's Bridge, King's Seat Hill. 1878. 6*s*.
135.—(39, 40.) Rumbling Bridge, Cauldron Linn, Lambhill Colliery. 1878. 4*s*.
139.—(39.) Alloa, Cambuskenneth. 1878. 4*s*.
140.—(39.) Clackmannan, Black Devon Water, Tullyallan Forest. 1878. 6*s*.
141.—(39, 40.) Comrie Coalfield, East Grange. 1878. 4*s*.
142.—(31, 39.) Kincardine-on-Forth, Culross. 1878. 4*s*.
143.—(31, 39, 40.) Valleyfield, Preston Island. 1878. 4*s*.

HORIZONTAL SECTIONS.

On the scale of six inches to one mile, in sheets uniform in size with the six-inch maps. *Price 5s. each sheet.*

1. Section from Edinburgh, through Arthur's Seat, Musselburgh, Tranent, and Garlton Hills to the coast three miles south-east of Dunbar.
   This section shows the structure of the northern part of the Mid-Lothian coalfield, with the Calciferous Sandstone series and trappean rocks rising from under it in Arthur's Seat on the west side, and in the Garltons to the east. The beginning of another coalfield is indicated by the limestone series south of Dunbar. 1862.
   Reference Maps.—One-inch scale, 32, 33; six-inch scale, Edinburghshire, 2, 3; Haddingtonshire, 6, 7, 8, 9, 10, 11.
2. Contains two sections illustrative of the Mid-Lothian and East Lothian coalfields, and Pentland Hills. No. 1. Section across the Pentland Hills and coal-field, through Warklaw Hill, Caerketton Hill, Loanhead, Newbattle Colliery, Roman Camp, Vogrie, and Fala, to the Lammermuir Hills at Blegbie. No. 2, across the coal-field, through Joppa, Monkton Hall, Dalkeith Park, Chalkieside, Cousland, and Preston Hall, to the Lammermuir Hills at Headshaw Burn. 1863.
   Reference Maps.—One-inch scale, 32, 33; six-inch scale, Edinburghshire, 3, 5, 6, 7, 8, 12, 13, 14; Haddingtonshire, 18; Berwickshire, 7.
3. Section from Blackcleugh Hill, Peeblesshire, across Edinburghshire, Linlithgowshire, and the Firth of Forth, to the coast of Fife near Brucehaven.
   This section gives the geological structure of part of the Peeblesshire Hills, the southern end of the Pentlands, the district of Camps, Broxburn, Winchburgh, and Hopetoun House, and the probable relations of the strata on the two sides of the Firth of Forth. 1871.
   Reference Maps.—One-inch scale, 24, 32; six-inch scale, Peeblesshire, 2, 5, 8, 12, 16, 17, 21; Edinburghshire, 4, 5, 11, 17; Linlithgowshire, 2, 6, 10.
4. Section from Auchendrane near Ayr through the Ayr, Kilwinning, and Dalry coalfields to the Firth of Clyde near Fairlie.

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This section begins in the middle Old Red Sandstone series, and shows the structure of the Ayrshire coalfields northwards to Dalry, beyond which it crosses the trappean edge of the north-west of Ayrshire to the Firth of Clyde. 1871.

Reference Maps.—One-inch scale, 14, 21, 22; six-inch scale, Ayrshire, 6, 7, 11, 12, 17, 22, 27, 33, 39.

5. Section from near Loch Doon through the Dalmellington, Coylton, and Kilmarnock coalfields into Renfrewshire. 1871.

6. Section for the Ayrshire county boundary through Renfrewshire by the Gleniffer Braes, Quarrelton Coal-field, Johnstone, and Garscadden ironstone districts across the Clyde, Kilpatrick Hills, and Benbowie to Glen Friun.

This section shows the Carboniferous Limestone on the south lying upon the volcanic series of the Calciferous Sandstone striking into the Renfrewshire coal and ironstone field, and rising again on the north side of the Clyde, where the volcanic rocks again appear from under the limestone series and form the Kilpatrick Hills. Some of the volcanic necks belonging to these hills are crossed by the line of section, which, after traversing a tract of Lower Old Red Sandstone, and a strip of Calciferous Sandstone with remarkable conglomerates, enters the metamorphic slates, schists, and greywackes of the Highland border. 1876.

Reference Maps.—One-inch Scale, 22, 30, 38; Six-inch scale, Dumbartonshire, 10, 13, 17, 18, 22, 23, 28; Renfrewshire, 7, 8, 11, 15, 16, 18; Ayrshire, 9.

7. Section from the Lammermuir Hills across the Valley of the River Tweed to the Cheviot Hills.

This section shows the felstone and the Upper Old Red Sandstone of the Lammermuir Hills; the Lower Carboniferous Series of the Valley of the River Tweed; the Lower Old Red Sandstone of part of Roxburghshire and the Porphyrites of the Cheviot Hills. 1877.

Reference Maps.—One-inch scale 17, 18, 25, 26; Six-inch scale, Berwickshire 15, 21, 27, 28; Roxburghshire, 6, 10, 16, 22, 28.

8. Section from Dumgoyne, Strathblane, across the Valley of the River Kelvin, Clyde and Irvine, to the moor south of Loudon Hill.

This section shows the porphyrites of the Campsie Hills, the Carboniferous Sandstones and Limestones of Craigend Muir and the Valley of the River Kelvin; passes through the Lanarkshire coal-field to the porphyrites of the Cathkin Hills. Shows also the porphyrites of the Eaglesham Hills, and the Carboniferous Limestone at Greenfield. 1877.

Reference Maps.—One-inch scale, 22, 27, 30, 31; Six-inch scale, Stirlingshire, 21, 27, 32, 33; Lanarkshire, 1, 2, 7, 10, 11, 16, 22, 23, 29, 30; Ayrshire, 20, 25.

9. This sheet contains two Sections illustrative of the geology of parts of Lanarkshire and Ayrshire, No. 1. Section from Greenfield near Drumclog, Lanarkshire, across the Muirkirk Coal-field to Spango Water; shows the porphyrites of the Lower Carboniferous Series, and the Lower Old Red Sandstone of Mill Rig and Ribbon Hill; the Upper Silurian rocks of Greenock Water and crosses the Muirkirk Coal-field, to the Calciferous Sandstone Series of Cairn Table; and the Lower Old Red Sandstone with traps at Wedder Dod to the Granite of Spango Water. No. 2, from Meanlour Hill across the Wellwood (Muirkirk) and Mansfield (New Cumnock) Collieries to Polstacher Burn; shows the Lower Old Red Sandstone Series of Meanlour Hill; the Calciferous Sandstone of River Ayr through the Wellwood Collieries and the Lower Old Red Sandstone Series and Calciferous Sandstone series of Guelt Water to the Carboniferous Limestone of Mansfield and the Lower Silurian Rocks with Intrusive Granite at Hare Hill. 1880.

Reference Maps.—One-inch scale, 15, 23; six-inch scale, Lanarkshire, 30, 36, 41, 45; Ayrshire, 25, 30, 31, 36, 42, 46; Dumfriesshire, 6.

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VERTICAL SECTIONS.

1. Illustrative of the Edinburghshire and Haddingtonshire coal-fields. *Reference one-inch Maps*, 32, 33. 1863. 3*s*. 6*d*.
2. The coal-fields of Fife. (*In preparation.*)
3. The Kilmarnock coal-field. 1870. 3*s*. 6*d*.
4. Lanarkshire Coal-field. 1874. 3*s*. 6*d*.
5. Stirlingshire and Clackmannan Coal-fields. 1877. 3*s*. 6*d*.
6. The Muirkirk, Lesmahagow, and Douglass Coal-fields. 1879. 3*s*. 6*d*.
7. The coal-fields of the Clyde Valley between Rutherglen and Carluke. 1879. 3*s*. 6*d*.

MEMOIRS.

Sheet

32. The Geology of the Neighbourhood of Edinburgh, by H. H. Howell and Archibald Geikie; Appendix and Lists of Fossils, by J. W. Salter; small index-map and sections, one plate of fossils, 26 woodcuts. Pp. 151. (1861.) Price 4*s*.; in cloth boards, 5*s*.

    This memoir describes in detail the geology of Arthur's Seat, Calton and Pentland Hills, the Coal-fields of Mid-Lothian and Borrowstownness, the numerous trappean masses between Edinburgh and the Linlithgow Hills, &c. *Out of print*. New Edition in preparation.

33. Geology of East Lothian, by H. H. Howell, Archibald Geikie, F.R.S., and John Young, M.D. Pp. 77. (1866.) Price 2*s*.

    Describes the chief part of the Lammermuir Hills; the granite of Fasney and Cockburn Law; the Upper Old Red Sandstone and conglomerate between Dunbar and Duns; the Calciferous Sandstone series, with its included volcanic rocks forming the Garlton Hills, and the range of cliffs from Aberlady Bay to Dunbar; the Carboniferous Limestone series, south of Dunbar; the East Lothian Coal-field, &c. *Out of print*. New Edition in preparation.

34. The Geology of Eastern Berwickshire, by Archibald Geikie, with woodcuts and plate of sections. Pp. 58. (1864.) Price 2*s*.

    Describes the eastern portion of the Lammermuir Hills, with the adjoining coast-line; the granite and porphyry of Stoneshiel Hill; St. Abb's Head; Lamberton; the Lower Old Red Sandstone and Ash of Reston and Eyemouth; the Upper Old Red Sandstone of the Whiteadder; the limestones, coals, and Calciferous Sandstone series to the north and west of Berwick-on-Tweed. *Out of print*. New Edition in preparation.

Explanatory Pamphlets for Sheets 1, 2, 3, 7, 13, 14, 15, 22, and 24 one-inch Geological Map of Scotland. Price 3*d*. each; for Sheet 23, price 1*s*.; Sheet 4, 9*d*.; Sheet 9, 1*s*.; Sheet 31, 2*s*. 3*d*.; Sheet 97, 4*d*. Other Explanations are in preparation, it being intended that each sheet of the one-inch Map shall be accompanied by a printed descriptive pamphlet.

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